

CORRES. CONTROL  
OUTGOING LTR NO.

DOE ORDER # 5480.22

01-RF-02721



01-RF-02721

November 27, 2001

Henry F. Dalton  
Assistant Manager  
Facilities Disposition  
DOE, RFFO

MODIFICATION #2 TO THE BUILDING 707 DECOMMISSIONING OPERATIONS PLAN -  
MSF-070-01

Pursuant to Section 4.0 of the Building 707 Decommissioning Operations Plan (DOP) and Paragraph 127 of the Rocky Flats Cleanup Agreement (RFCA), the Kaiser-Hill Company, L.L.C. is submitting the attached (Attachment 1) minor modification for your approval and transmittal to the Colorado Department of Public Health and Environment (CDPHE).

This modification to the DOP includes:

- Updates to the Set descriptions
- Amendments that ensure consistency between the 707 DOP and the 776/777 DOP such that management of the overall 707/776/777 Project is unambiguous
- Updates and corrections to Table 20, Building 707 RCRA-Regulated Units
- Correction of typographical errors and incorrect references

Appendix G contains the Building 707 Re-Baseline Set Descriptions (Attachment 2).

If you have questions, please contact Kathy Zbryk at (303) 966-6647.

Mark S. Ferri  
Vice President & Project Manager  
Building 707/776/777 Closure Project

Attachments:  
As Stated

KZ:cms

Orig. and 1cc - H.F. Dalton

cc:  
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DOCUMENT CLASSIFICATION  
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ADMIN RECORD  
B707-A-000071



DIST.	LTR	ENC
BRAILS FORD, M.D.		
FERRERA, D.W.		
FERRI, M.S.	x	
FULTON, J.C.		
GIACOMINI, J.		
HALL, L.		
MARTINEZ, L.A.		
PARKER, A.M.	x	
POWERS, K.	x	
SCOTT, G.K.		
SHELTON, D.C.		
SPEARS, M.S.		
TRICE, K.D.		
TUOR, N.R.		
VOORHEIS, G.M.		
Dahlgren, S.	x	
Hopkins, T.	x	
Johnson, M.	x	
Starkey, R.	x	
Zbryk, K.	x	
707 Project Files	x	x
COR. CONTROL	x	x
ADMIN. RECORD	x	x
WASTE REC. CTR.		
TRAFFIC		
PATS/130		
CLASSIFICATION:		
UCNI		
UNCLASSIFIED	x	x
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SECRET		

AUTHORIZED CLASSIFIER  
SIGNATURE  
*Mark S. Ferri*

Date 11/27/01

IN REPLY TO RFP CC  
NO:

ACTION ITEM STATUS  
☐ PARTIAL/OPEN  
☐ CLOSED

TR APPROVALS:  
ORIG & TYPIST INITIALS  
KZ:cms  
Revision 7/01

CORRES. CONTROL  
1/59

## Requested Changes to Building 707 DOP

The proposed changes to the 707 DOP are identified by section and page number. Additions are shown in italics and deletions shown in strikeout. Changes are also shown with a sidebar marked "Mod #2".

- 1) Section 4.3, Set Identification and Prioritization, page 30: Please add the following wording to accommodate for set descriptions that may be amended in order to reflect work enhancements. The Table of Contents will also be amended to reflect the addition of the new appendix.

### Set Identification and Prioritization

For planning purposes, the Building 707 Closure Project has been divided into 17 Sets, which are small, manageable groupings of similar systems, equipment, and areas or rooms that can be worked independently. Sets serve as the foundation for scheduling decommissioning work. Typically, Sets are scheduled for decommissioning based on a series of factors, including safety, physical constraints, resource requirements, operational issues, management issues, waste generation issues, and cost. The current decommissioning schedule is discussed in Section 9.0 and presented in Appendix A. As shown on the schedule, decommissioning activities may be ongoing in two or more Sets at the same time. Detailed Set descriptions are provided in the RLCR. Summary descriptions are presented below. *Set descriptions may be amended to reflect more efficient work opportunities. Amendments to the Set descriptions are documented in Appendix G, Revised Set Descriptions.* Removal, size reduction, and decontamination techniques and associated controls are discussed in Section 4.4. Step-by-step work instructions will be provided in the individual IWCP work packages for each Set.

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- 2) Footnote 34, page 39: Please delete the following section. Hazardous constituents may not be removed from the interior or exterior of a glovebox. The waste will be characterized, packaged and managed in accordance with waste management requirements.

- Both fixed and removable radioactive contamination must be below the maximum allowable DOT levels.
- ~~Inherently hazardous constituents must be removed from the exterior and interior of the glovebox, allowing the glovebox itself to be characterized as non-hazardous. Examples of hazardous constituents~~

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~~include leaded glass windows and lead-lined glovebox gloves. For gloveboxes that previously stored characteristic waste only, this will occur once waste residuals have been removed. Gloveboxes previously storing listed wastes will be considered non-hazardous once the "clean debris surface" standard has been met following decontamination.~~

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- 3) Section 5.1.2, Management Requirements for Remediation Waste, page 83: Please include the following words to provide consistency between the combined 707/776/777 Project and respective DOPs.

Section 5.1.2, Management Requirements For Remediation Waste

Hazardous and mixed wastes designated as "remediation" waste will be managed in accordance with the ARARs presented in Section 8.0 of this DOP, and with the remediation waste management requirements described in a Building 707 Operations Order *or procedure*, which will be prepared prior to the initiation of decommissioning activities.

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- 4) Section 5.3.1, Idle Equipment Containing Hazardous Materials Inventory, page 88: Please terminate the Idle Equipment and Hazardous Waste Tank Compliance Order on Consent. Provisions for management of idle equipment are identified in the 707 DOP. Please add the following sentence(s) to terminate this Order on Consent.

Section 5.3.1, Idle Equipment Containing Hazardous Materials Inventory

- When empty, the equipment will be characterized and managed in accordance with the applicable ARARs.

*In accordance with the terms of the Idle Equipment and Hazardous Waste Tank Compliance Order on Consent, this Order is hereby terminated for each piece of equipment listed in Table 17.*

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- 5) Table 17, Building 707 Idle Equipment with Hazardous Materials Inventory, page 89: Please revise the location of Idle equipment number 707-0067 from Module B, Rm. 105, GB-B105 to GB-B100 in Room 105. This is a typographical error.
- 6) Section 5.3.2, Mixed Residue, page 90: Please remove reference to the 707 HASP; the project uses the OSH Site Health and Safety Manual and job specific hazard analysis to ensure safe work practices rather than a project specific safety plan.

### 5.3.2 Mixed Residues

The existing inventory of liquid mixed residues contained in tanks and ancillary equipment has been managed under the terms and conditions of the Mixed Residue Compliance Order on Consent.<sup>56</sup> As part of facility deactivation, these tanks were tapped and drained in 1998. The tanks are currently in a physically empty configuration and are inspected quarterly. In the event additional inventory is discovered in a tank during decommissioning, Building 707 Facility management will develop an action plan to determine the source of the liquid, or schedule a sampling event or other appropriate action to make a hazardous waste determination. If appropriate, the action plan may include draining the liquid from the system. The Building 707 Closure Project Health and Safety Plan (HASP) contains pre-planning requirements for responses to possible releases from mixed residue tank systems. Pre-planning activities include identification of vital elements of the tank system, identification of locations of primary shut-off valves capable of isolating feed to a tank, and a pre-release plan, which specifies the recommended method to drain the tank system (e.g., hot tapping at a low spot, draining into bottles, or draining into another tank system). Facility operations personnel are trained to implement the pre-release plan and accompanying shut-off procedures. In the event of an actual release from a mixed residue tank system, the Site's RCRA Contingency Plan will be followed.

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- 7) Table 20, Building 707 RCRA-Regulated Units, pages 94-96: Please replace Table 20 with the attached version. Changes include (1) addition of a column referencing the re-baseline set numbers provided in Attachment G, (2) addition of two container storage units that have closure plans listed in Appendix C but were inadvertently left off of Table 20, and (3) minor edits and corrections.
- 8) Section 6.1.1, Clean Closure, Clean Closure Option #2, page 98: Please change the last line of the second paragraph as shown below. This change is requested to provide consistency between the Building 707 and 776/777 DOPs.

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The final rinsate will not exceed a volume of two gallons per 100 ft<sup>2</sup> of surface area rinsed, and for internal surfaces, such as tank systems, the final rinsate will not exceed a volume of 5 percent of the capacity of the system. If test results indicate the standard has been met, the unit will be considered "clean closed." ~~Units that cannot be decontaminated to meet the performance standard will be removed prior to building demolition and managed as hazardous or mixed waste. In the event the standard is not met, the LRA will be consulted to determine whether the results are protective of human health and the environment.~~

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- 9) Section 6.2, Closure Documentation, page 99: Please remove the requirement for an independent PE certification since unit by unit PE certification is not a regulatory requirement. Clean closure of RCRA units is verified and documented by both 707/776/777 Environmental Safety and CDPHE; an additional level of certification has limited value.

Section 6.2, Closure Documentation

For units undergoing clean closure in accordance with Section 6.1.1 of this DOP, ~~a closure certification will be prepared and signed by an independent, Colorado registered, professional engineer will be documented in the IWCP and verified by Environmental Safety. The closure certification will be submitted to the LRA for review and concurrence within 60 days after completion of the associated closure activities. Units removed in accordance with Sections 6.1.2 and 6.1.3 will not require a professional engineer's certification.~~

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- 10) Appendix C, B707 Closure Project RCRA Unit Closure Information Sheet, RCRA Unit #707.1, Container Storage Modules C and D, pages C-5 and C-6: Please delete these pages. These units were never permitted or activated, and do not require closure.
- 11) Appendix C, B707 Closure Project RCRA Unit Closure Information Sheet, RCRA Units #92.020 and 92.021, pages C-25 and C-26: Please consider these units for withdrawal from the RCRA Master List. These units were never activated and do not require closure. Additionally, these units were never granted interim status. Please delete these pages from the 707 DOP.

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- 12) Appendix C, B707 Closure Project RCRA Unit Closure Information Sheet, RCRA Unit #90.60, Container Storage G and E Halls, page C-30: Please revise this page to include Unit 90.28, E and F Hall, and Unit 90.60, G and H Hall. The closure information currently provided is correct for both units, but the unit description was in error.
- 13) Appendix C, B707 Closure Project RCRA Unit Closure Information Sheet, RCRA Unit # 40.16, page C-41: Please revise EPA code F055, as identified on the closure information sheet for Unit 40.16, to F005. This is a typographical error.
- 14) Appendix G, Revised Set Descriptions: Please add a new Appendix G containing the attached (Attachment 2) re-baseline set descriptions.

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Table 20. Building 707 RCRA-Regulated Units

Set #	Rebaseline Set #	Unit #	Bldg.	Unit Description	Regulatory Status	EPA Waste Codes
1-10 and 12	Various	707.1	707	Container Storage	PERMITTED	D001-D012, D015-D019, D021-D029, D033, D035-D038, D040-D043, F001-F003, F005-F007, F009, U227
1, 2, 3, 4, 5 and 7	C-pit: C6 Ancillary: various	92.001 to 92.019	707	Mixed Residue Tanks (Module C Pit): Tank V-100, V-30, V-31, V-1, V-12, V-13, V-14, V-15, V-16, V-17, V-18, V-19, V-2, V-3, V-4, V-5, V-6, V-7, V-8	RCRA STABLE (and also physically empty) per 99-DOE-03494 (1/28/99); approved by CDPHE 8/23/99; currently subject to quarterly inspections	F001, F002
1	A2, A3	707.1	707	Container Storage, Module A, Gloveboxes A-25, A-30 (90.106), A-35, A-45, and A-55	PERMITTED	D001-D012, D015-D019, D021-D029, D033, D035-D038, D040-D043, F001-F003, F005-F007, F009, U227
1	A4, A5	707.3A	707	Salt Stabilization Process: Module A, Gloveboxes A-70, A-75, A-80, A-85, A-90, A-100, A-120, A-125 (90.106), and Furnaces	PERMITTED but never activated; never used to treat hazardous waste.	NA
1	A7	90.59	707	Container Storage, C-Cell, Module A	No longer subject to RCRA regulation; closed in accordance with "RCRA Closure Plan for Mixed Residue Container Storage Units," (11/22/98); closure certification signed 5/20/96 (ref. 96-DOE-07053, 5/28/96). Note: A new C-cell is now permitted as part of Unit 707.1, Container Storage, Module A.	NA
3	C5	90.146	707	Container Storage, Glovebox C-40, Module C	Never used for hazardous waste; not subject to RCRA regulation, withdrawn 10/26/94 (ref. 94-DOE-10453)	NA
4	D2, D4	707.3C	707	Dry Residues Repackaging Process: Module D, Gloveboxes D-30, D-35, D-40, D-45, D-75, D-90, D-95, and Crusher, Saws, Milling Machine, and Hand Tools	PERMITTED but never activated; never used to treat hazardous waste	NA

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Table 20. Building 707 RCRA-Regulated Units

Set #	Rebaseline Set #	Unit #	Bldg.	Unit Description	Regulatory Status	EPA Waste Codes
5	E1, E3, E5	707.1	707	Container Storage, Module E, Gloveboxes E-30, E-55 and E-115	PERMITTED	D001-D012, D015-D019, D021-D029, D033, D035-D038, D040-D043, F001-F003, F005-F007, F009, U227
5	E2, E3, E4, E5	707.3B	707	Ash Stabilization Process: Module E, Gloveboxes E-20, E-25, E-30, E-55, E-60, E-65, E-70, E-95, E-105, E-110, E-115, E-125, hammer mill, sieves, and furnaces	PERMITTED	D004-011, F001, F002, F005-F007, F009
7	NA	90.105	707	Container Storage, Rm. 130B	Never used for hazardous waste; not subject to RCRA regulation; withdrawn 10/26/94 (ref. 94-DOE-10453)	NA
8	H1	90.75	707	Container Storage, Rm. 136 (H-Vault)	Never used for hazardous waste; not subject to RCRA regulation; withdrawn 10/26/94 (ref. 94-DOE-10453)	NA
8	H1	90.76	707	Container Storage, Module H, (H-Cage)	Never used for hazardous waste; not subject to RCRA regulation; withdrawn 10/26/94 (ref. 94-DOE-10453)	NA
9	J2	707.1	707	Container Storage, Module J, Gloveboxes J-35 and J-55	PERMITTED	D001-D012, D015-D019, D021-D029, D033, D035-D038, D040-D043, F001-F003, F005-F007, F009, U227
9	J1	90.74	707	Container Storage, Rm. 141 (J-Vault)	Mixed Residue unit; not in active use, but not RCRA stable	TBD
9	NA	90.98	707	Container Storage, Rm. 142 (J-Closet)	Never used for hazardous waste; not subject to RCRA regulation; withdrawn 10/26/94 (ref. 94-DOE-10453)	NA
9	J2	92.020	707	Plutonium Stabilization Unit, Glovebox 25, Module J	Never used for hazardous waste; not subject to RCRA regulation	NA



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Table 20. Building 707 RCRA-Regulated Units

Set #	Rebaseline Set #	Unit #	Bldg.	Unit Description	Regulatory Status	EPA Waste Codes
9	J3	92.021	707	Plutonium Stabilization Unit, Glovebox 60, Module J	Never used for hazardous waste; not subject to RCRA regulation	NA
10	K2	90.147	707	Container Storage, Glovebox K-45, Module K	Never used for hazardous waste; not subject to RCRA regulation; withdrawn 10/26/93 (ref. 94-DOE-10453)	NA
10	K3	707.1	707	Container Storage, Module K, Gloveboxes K-65 and K-75	PERMITTED	D001-D012, D015-D019, D021-D029, D033, D035-D038, D040-D043, F001-F003, F005-F007, F009, U227
12	C8, R2, various	92 series	707	Overhead piping associated with the Module C Pit Mixed Residue Tanks	PERMITTED Mixed Residue	F001, F002
12	NA	90.27	707	Container Storage, C&D Halls	Never used for hazardous waste; not subject to RCRA regulation; Withdrawn 10/26/94 (ref. 94-DOE-10453).	NA
12	NA	90.28	707	Container Storage, E&F Halls	No longer subject to RCRA regulation; closed in accordance with "RCRA Closure Plan for Mixed Residue Container Storage Units," (11/22/98); closure certification signed 5/26/96 (ref. 96-DOE-07053, 5/28/96)	NA
12	NA	90.61	707	Container Storage, F&G Halls	No longer subject to RCRA regulation; closed in accordance with "RCRA Closure Plan for Mixed Residue Container Storage Units," (11/22/98); closure certification signed 5/26/96 (ref. 96-DOE-07053, 5/28/96)	NA
12	NA	90.60	707	Container Storage, G&H Halls	No longer subject to RCRA regulation; closed in accordance with "RCRA Closure Plan for Mixed Residue Container Storage Units," (11/22/98); closure certification signed 5/26/96 (ref. 96-DOE-07053, 5/28/96).	NA

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Table 20. Building 707 RCRA-Regulated Units

Set #	Rebaseline Set #	Unit #	Bldg.	Unit Description	Regulatory Status	EPA Waste Codes
12	NA	90.77	707	Container Storage, G Corridor Cage	Never used for hazardous waste; not subject to RCRA regulation; Withdrawn 10/26/94 (ref. 94-DOE-10453).	NA
17	Y3	40.16	732	Laundry Waste Tank T-4	INTERIM STATUS	F001-F003, F005, F007-F009

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APPENDIX G  
BUILDING 707  
RE-BASELINE SET DESCRIPTIONS

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## **Appendix G**

### **B707 Re-Baseline Set Descriptions**

The following set descriptions provide a general description of each set and establish the basis for scope definition, engineering and planning of the actual work performance and completion criteria of the set. The specific equipment and set boundaries will be determined by Project Management and engineering, and documented in the set scoping documents and IWCP packages for the set. Any exceptions to the set will also be identified in the set scoping documents.

#### **Set A1                      Controllers, Pendants, & O<sub>2</sub> Analyzers Removal Module A**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of equipment, electrical and/or mechanical isolation of the identified equipment, any necessary containments for the equipment, and the actual physical removal of specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, personnel resources to produce surveys/scans (radiological and other) and personnel resources to physically dismantle and disposition the equipment.

Identified equipment contained in this set includes die-cast furnace controls, Harwood press control panel, glove box A45/55 furnace control panel, salt residue furnace control panels and power transformers, Lucifer furnace, chainveyor pendant removal from the S24 transfer line, chainveyor pendant removal from the S8A transfer line, chainveyor pendant removal from the S3A&B centerline, O<sub>2</sub> analyzers throughout the module (including panels and tubing up to approx. 8 ft from the floor), and the segmented gamma scanners and their respective controllers.

Equipment within this set is expected to be isolated and separated at logical and convenient points, with any residual removal to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

#### **Set A2                      Glove Boxes 10, 15, 20, 30, 40, Chainveyors (CVs), & Pendants Removal Module A**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of glove boxes and equipment, leaded window removal, electrical and/or mechanical isolation of the identified glove boxes and equipment, any necessary containments for the glove boxes and equipment, and the actual physical removal of specified glove boxes and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the glove boxes and equipment. Tasks associated with these activities, as appropriate, may include glove changes, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, residue holdup removal and dispositioning (where required), packaging of the glove box or equipment and waste, and transporting of glove boxes to a size reduction facility (if required).

Identified glove boxes within this set include A10, A15, A20, A30, and A40 die-casting furnace. A portion of chainveyor transfer lines S8 and S8A, up to approx. 8 ft from the floor, and chainveyor centerline, from the east end to a point near the junction with S24 transfer line, is expected to be removed with this set. Equipment removal encompasses the removal of the contaminated "hot" toolbox.

Equipment within this set is expected to be isolated and separated at logical and convenient points up to approximately 8ft above the floor, with any residual removal below the approximate 8ft line to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

It is anticipated that chainveyor transfer lines, chainveyor centerlines, and selected glove boxes can be successfully decontaminated to the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.

#### **Set A3                      Glove Boxes 25, 35, 45, & 55 and Stokes Pumps Removal Module A**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of glove boxes and equipment, electrical and/or mechanical isolation of the identified glove boxes and equipment, any necessary containments for the glove boxes and equipment, and the actual physical removal of specified glove boxes and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the glove boxes and equipment. Tasks associated with these activities, as appropriate, include glove changes, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, residue holdup removal and dispositioning (where required), and the packaging of the glove box or equipment and waste. This set is comprised of glove boxes and equipment that, because of size and contamination levels, is intended to be dismantled in situ. It is anticipated that soft-sided containments (SSCs) will be utilized for the in situ dismantlement.

Identified glove boxes and equipment within this set include A25 tilt-pour furnace, A35 tilt-pour furnace, A45 tilt pour furnace, A55 tilt pour furnace, and the Stokes pumps associated with these furnaces.

Equipment and glove boxes within this set are expected to be isolated and separated at logical and convenient points up to approximately 8ft above the floor, with any residual removal below the approximate 8ft line to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

#### **Set A4                      Glove Boxes 65, 67, 70, 75, 80, 85, 90, & CVs Removal Module A**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of glove boxes and equipment, leaded window removal, electrical and/or mechanical isolation of the identified glove boxes and equipment, any necessary containments for the glove boxes and equipment, and the actual physical removal of specified glove boxes and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the glove boxes and equipment. Tasks associated with these activities, as appropriate, include glove changes, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, residue holdup removal and dispositioning (where required), packaging of the glove box or equipment and waste, and transporting of glove boxes to a size reduction facility (if required). Certain glove boxes within this set will be dismantled in situ and require a SSC.

Identified glove boxes and equipment within this set include A65, A67, A70 salt residue furnaces, A75, A80 salt residue furnaces, A85 Sheffield gage, and A90. A portion of the chainveyor transfer line S24 from the centerline to just east of the existing C-cell and chainveyor centerline, from near glove box A90 to a point near the junction with S24 transfer line, is expected to be removed with this set.

Equipment and glove boxes within this set are expected to be isolated and separated at logical and convenient points up to approximately 8ft above the floor, with any residual removal below the approximate 8ft line to be accomplished under miscellaneous items removal in another set within this

module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

It is anticipated that chainveyor transfer lines and chainveyor centerlines can be successfully decontaminated to the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.

#### **Set A5                   Glove Boxes 100, 110, 120, 125, CVs, & Misc <8' Removal Module A**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of glove boxes and equipment, leaded window removal, electrical and/or mechanical isolation of the identified glove boxes and equipment, any necessary containments for the glove boxes and equipment, and the actual physical removal of specified glove boxes and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the glove boxes and equipment. Tasks associated with these activities, as appropriate, include glove changes, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, residue holdup removal and dispositioning (where required), packaging of the glove box or equipment and waste, and transporting of glove boxes to a size reduction facility (if required). Certain glove boxes within this set will be dismantled in situ and require a SSC.

Identified glove boxes and equipment within this set include A100 lathe, A110 salt residue furnaces, A120, and A125 lathe. The chainveyor centerline, from near glove box A90 to the west end, is expected to be removed with this set. Also included in this set is the removal of any other miscellaneous or residual items in the module that are below approximately 8ft from the floor.

Equipment and glove boxes within this set are expected to be isolated and separated at logical and convenient points up to approximately 8ft above the floor, with any residual removal below the approximate 8ft line to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

It is anticipated that chainveyor transfer lines, chainveyor centerlines, and glove box A120 can be successfully decontaminated to the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.

#### **Set A6                   Harwood Press and Harwood Room Walls Removal Module A**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of equipment or structures, electrical and/or mechanical isolation of the identified equipment, any necessary containments for the equipment or structures, and the actual physical removal of specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, personnel resources to produce surveys/scans (radiological and other), and personnel resources to physically dismantle and disposition the equipment or structure. The Harwood press will be dismantled in situ, thus requiring a SSC.

Identified equipment and structures contained in this set includes the Harwood press and the surrounding walls.

Equipment within this set is expected to be isolated and separated at logical and convenient points, with any residual removal to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum

**Set A7****Mechanical & Electrical Stripout, CVs, & C-Cell Removal Module A**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of chainveyor sections, items, and equipment, leaded window removal, electrical and/or mechanical isolation of the identified chainveyor sections, items, and equipment, any necessary containments for the chainveyor sections and equipment, and the actual physical removal of specified chainveyor sections and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the chainveyor sections and equipment. Tasks associated with these activities, as appropriate, include glove changes, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes. Also included are tasks such as the use of decontamination processes, erection of scaffolding, encapsulation by use of fixatives, residue holdup removal and dispositioning (where required), packaging of the chainveyor sections, equipment, and waste, and transporting of chainveyor sections to a size reduction facility (if required).

The scope of this set includes the isolation and removal of both mechanical and electrical items (such as conduit, wiring, piping, tubing, ceiling, and hangers, etc.) above the approximate 8-ft line. Building wide safety systems, such as fire suppression, life safety/disaster warning, etc., will be taken out as scoped in set U7. The remaining portions of chainveyor transfer lines S24, S8A, and S8 above the 8ft line and to a logical separation point with adjacent modules/rooms, is expected to be removed and dispositioned. The contamination cell (c-cell) structure on the north side of the module will be removed and dispositioned.

Equipment and glove boxes within this set are expected to be isolated and separated at logical and convenient points with adjacent modules or rooms.

It is anticipated that chainveyor transfer lines and chainveyor centerlines can be successfully decontaminated to the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.

**Set B1****Press Room walls, Pendants, Controllers, & O<sub>2</sub> Analyzers Removal Module B**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of equipment, electrical and/or mechanical isolation of the identified equipment, any necessary containments for the equipment, and the actual physical removal of specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, personnel resources to produce surveys/scans (radiological and other) and personnel resources to physically dismantle and disposition the equipment.

Identified equipment and structures contained in this set include the removal of the isostatic press room walls, multiple furnace control panels, rolling mill control panel, O<sub>2</sub> analyzers throughout the module (including panels and tubing up to approx. 8 ft from the floor), chainveyor pendant removal from S8B, S18, S19, S21, S22 transfer lines, chainveyor pendant removal from the S23 storage line, and chainveyor pendant removal from the S4 centerline,

Equipment and structures within this set are expected to be isolated and separated at logical and convenient points, with any residual removal to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

**Set B2****Glove Boxes 20, 25, 25A, 25B, 55, & Chainveyors (CVs) Removal Module B**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of glove boxes and equipment, leaded window removal, electrical and/or mechanical isolation of the identified glove boxes and equipment, any necessary containments for the glove boxes and equipment, and the actual physical removal of specified glove boxes and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the glove boxes and equipment. Tasks associated with these activities, as appropriate, include glove changes, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, residue holdup removal and dispositioning (where required), packaging of the glove box or equipment and waste, and transporting of glove boxes to a size reduction facility (if required). Certain glove boxes within this set will be dismantled in situ and require a SSC.

Identified glove boxes and equipment within this set include B20 lathe, B25, B25A density box, B25B thermacycle, and B55. A portion of the chainveyor transfer lines S8A, S8B, and S21 up to approx. 8 ft from the floor, and chainveyor centerline S4, from the east end to a point near the junction with glove box B65, is expected to be removed with this set.

Equipment and glove boxes within this set are expected to be isolated and separated at logical and convenient points up to approximately 8ft above the floor, with any residual removal below the approximate 8ft line to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

It is anticipated that chainveyor transfer lines and chainveyor centerlines can be successfully decontaminated to the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.



**Set B3****Glove Boxes 65, 75, Chainveyors (CVs) Removal Module B**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of glove boxes, chainveyors, and equipment, leaded window removal, electrical and/or mechanical isolation of the identified glove boxes and equipment, any necessary containments for the glove boxes and equipment, and the actual physical removal of specified glove boxes, chainveyor sections, and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the glove boxes and equipment. Tasks associated with these activities, as appropriate, include glove changes, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes and chainveyor sections. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, residue holdup removal and dispositioning (where required), packaging of the glove box, chainveyor section, or equipment and waste, and transporting of glove boxes to a size reduction facility (if required). Certain glove boxes within this set will be dismantled in situ and require a SSC.

Identified glove boxes, chainveyors, and equipment within this set include the B65 shimmy die and B75 post-form anneal furnace. A portion of the chainveyor transfer line S22 up to approx. 8ft. from the floor, and chainveyor centerline S4, from near the junction with glove box B65 to a point near the junction with glove box B70, is expected to be removed with this set.

Equipment, chainveyors, and glove boxes within this set are expected to be isolated and separated at logical and convenient points up to approximately 8ft above the floor, with any residual removal below the approximate 8ft line to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

It is anticipated that chainveyor transfer lines and chainveyor centerlines can be successfully decontaminated to the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.

**Set B4****Glove Boxes 60, 70, 80, & CVs Removal Module B**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of glove boxes, chainveyors, and equipment, leaded window removal, electrical and/or mechanical isolation of the identified glove boxes and equipment, any necessary containments for the glove boxes and equipment, and the actual physical removal of specified glove boxes, chainveyor sections, and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the glove boxes and equipment. Tasks associated with these activities, as appropriate, include glove changes, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes and chainveyor sections. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, residue holdup removal and dispositioning (where required), packaging of the glove box, chainveyor section, or equipment and waste, and transporting of glove boxes to a size reduction facility (if required). This set is comprised of glove boxes that, because of size and contamination levels, are intended to be dismantled in situ. It is anticipated that soft-sided containments (SSCs) will be utilized for the in situ dismantlement.

Identified glove boxes, chainveyors, and equipment within this set include B60, and B70 and B80 thermacycles. The isolation and removal of the entire chainveyor storage line S23, as well as a section of the chainveyor centerline S4 from near the junction with glove box B70 to a point near the junction with glove box B90, is planned to be accomplished in this set.

Equipment, chainveyors, and glove boxes within this set are expected to be isolated and separated at logical and convenient points up to approximately 8ft above the floor, with any residual removal below the approximate 8ft line to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

It is anticipated that chainveyor transfer lines and chainveyor centerlines can be successfully decontaminated to the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.

#### **Set B5                      Glove Boxes 95, 95A, 95B, 105, 110, & CV Removal Module B**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of glove boxes, chainveyors, and equipment, leaded window removal, electrical and/or mechanical isolation of the identified glove boxes and equipment, any necessary containments for the glove boxes and equipment, and the actual physical removal of specified glove boxes, chainveyor sections, and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the glove boxes and equipment. Tasks associated with these activities, as appropriate, include glove changes, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes and chainveyor sections. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, residue holdup removal and dispositioning (where required), packaging of the glove box, chainveyor section, or equipment and waste, and transporting of glove boxes to a size reduction facility (if required). This set is comprised of glove boxes that, because of size and contamination levels, are intended to be dismantled in situ. It is planned that soft-sided containment (SSCs) will be utilized for the in situ dismantlement.

Identified glove boxes, chainveyors, and equipment within this set include B95 heat treating furnace, B95A annealing furnace, B95B heat treating furnace, B105 rolling table/blanking press/shear, and B110 heat treating furnace. Also included in this set is a section of the chainveyor transfer line S19, up to approx. 8ft from the floor.

Equipment, chainveyors, and glove boxes within this set are expected to be isolated and separated at logical and convenient points up to approximately 8ft above the floor, with any residual removal below the approximate 8ft line to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

It is anticipated that chainveyor transfer lines and chainveyor centerlines can be successfully decontaminated to the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.

#### **Set B6                      Glove Boxes 85 and 85 Under Press Tank Removal Module B**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of the glove box and equipment, electrical and/or mechanical isolation of the identified glove box and equipment, any necessary containments for the glove box and equipment, and the actual physical removal of specified glove box and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the glove box and equipment. Tasks associated with these activities, as appropriate, include glove changes, protective lead shielding removal, glove box interior strip out of

accessible items, and wipe downs and surveys (radiological and other) of the glove box. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, residue holdup removal and dispositioning (anticipated), and the packaging of the glove box, equipment, and waste. This set is comprised of a glove box and equipment that, because of size and contamination levels, are intended to be dismantled in situ. It is anticipated that a soft-sided containment (SSC) will be utilized for the in situ dismantlement.

Identified glove box and equipment within this set include the B85 hydroform press and a below floor tank under the hydroform press..

The equipment and glove box within this set are expected to be isolated and separated at logical and convenient points up to approximately 8ft above the floor ,or in this case at the most logical isolation point , with any residual removal below the approximate 8ft line to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

#### **Set B7                      Glove Boxes 90, 100, CVs, & Misc<8' Removal Module B**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of glove boxes and equipment, leaded window removal, electrical and/or mechanical isolation of the identified glove boxes and equipment, any necessary containments for the glove boxes and equipment, and the actual physical removal of specified glove boxes and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the glove boxes and equipment. Tasks associated with these activities, as appropriate, include glove changes, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, residue holdup removal and dispositioning (where required), packaging of the glove box or equipment and waste, and transporting of glove boxes to a size reduction facility (if required). Certain glove boxes within this set will be dismantled in situ and require a SSC.

Identified glove boxes, chainveyor sections, and equipment within this set include B90, Dennison press located in the centerline, and B100 Nash rolling mill. The chainveyor centerline S4, from near glove box B90 to the west end, is expected to be removed with this set. Additionally, a section of the chainveyor transfer line S18, up to approx. 8ft from the floor, is planned. Also included in this set is the removal of any other miscellaneous or residual items in the module that are below approximately 8ft from the floor.

Equipment and glove boxes within this set are expected to be isolated and separated at logical and convenient points up to approximately 8ft above the floor, with any residual removal below the approximate 8ft line to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

It is anticipated that chainveyor transfer lines and chainveyor centerlines can be successfully decontaminated to the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.

#### **Set B8                      Mechanical & Electrical Stripout and CVs Removal Module B**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of chainveyor sections, items, and equipment, leaded window removal, electrical and/or mechanical isolation of the identified chainveyor sections, items, and equipment, any necessary containments for the chainveyor sections and equipment, and the actual physical removal of specified chainveyor sections and equipment. Inclusive in these activities are the

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resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the chainveyor sections and equipment. Tasks associated with these activities, as appropriate, include glove changes, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes. Also included are tasks such as the use of decontamination processes, erection of scaffolding, encapsulation by use of fixatives, residue holdup removal and dispositioning (where required), packaging of the chainveyor sections, equipment, and waste, and transporting of chainveyor sections to a size reduction facility (if required).

The scope of this set includes the isolation and removal of both mechanical and electrical items (such as conduit, wiring, piping, tubing, ceiling, and hangers, etc.) above the approximate 8-ft line. Building wide safety systems, such as fire suppression, life safety/disaster warning, etc., will be taken out at a later date, as scoped in set U7. The remaining portions of chainveyor transfer lines S8A, S8B, S18, S19, S20, S21, and S22 above the 8ft line and to a logical separation point with adjacent modules/rooms, is expected to be removed and dispositioned.

Equipment and glove boxes within this set are expected to be isolated and separated at logical and convenient points with adjacent modules or rooms.

It is anticipated that chainveyor transfer lines and chainveyor centerlines can be successfully decontaminated to the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.

## **Set C1                      Glove Box 105, Controllers, & O<sub>2</sub> Analyzers Removal Module C**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of equipment and a glove box, electrical and/or mechanical isolation of the identified equipment and glove box, any necessary containments for the equipment, and the actual physical removal of specified equipment and glove box. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, personnel resources to produce surveys/scans (radiological and other) and personnel resources to physically dismantle and disposition the equipment.

Identified equipment and glove box contained in this set includes C105 lathe, lathe controllers and power panels within the module, the C-pit electrical panel, and O<sub>2</sub> analyzers throughout the module (including panels and tubing up to approx. 8 ft from the floor).

The equipment and the glove box within this set is expected to be isolated and separated at logical and convenient points, with any residual removal to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum. The method of dismantlement is assumed to be mechanical in nature.

## **Set C2                      Glove Boxes 90, 95, 110, 115, 120, 125, & CVs Removal Module C**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of glove boxes, chainveyor sections, and equipment, leaded window removal, electrical and/or mechanical isolation of the identified glove boxes, chainveyor sections, and equipment, any necessary containments for the glove boxes and equipment, and the actual physical removal of specified glove boxes, chainveyor sections, and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the glove boxes, chainveyor sections, and equipment. Tasks associated with these activities, as appropriate, include glove changes, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes and chainveyor sections. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, residue holdup removal and dispositioning (where required), packaging of the glove box or equipment and waste, and transporting of glove boxes and chainveyor sections to a size reduction facility (if required). This set contains glove boxes and equipment that, because of size and contamination levels, are intended to be dismantled in situ. It is anticipated that soft-sided containments (SSCs) will be utilized for the in situ dismantlement.

Identified glove boxes, chainveyor sections, and equipment within this set include C90 density tank, C95 mill and jig bore, C110 briquetting press and dip tanks, C115 lathe, C120 filter box, and C125 Hardinge chucker. A portion of the chainveyor transfer lines S19, S20, and S22 up to approx. 8 ft from the floor, and chainveyor centerline S5, from the west end to a point near the junction with glove box C80, is expected to be removed with this set.

Equipment and glove boxes within this set are expected to be isolated and separated at logical and convenient points up to approximately 8ft above the floor, with any residual removal below the approximate 8ft line to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

It is anticipated that chainveyor transfer lines and chainveyor centerlines can be successfully decontaminated to the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.

**Set C3****Glove Boxes 50, 60, 60A, 70, 75, 80, 85, & CVs Removal Module C**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of glove boxes, chainveyor sections, and equipment, leaded window removal, electrical and/or mechanical isolation of the identified glove boxes, chainveyor sections, and equipment, any necessary containments for the glove boxes and equipment, and the actual physical removal of specified glove boxes, chainveyor sections, and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the glove boxes, chainveyor sections, and equipment. Tasks associated with these activities, as appropriate, include glove changes, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes and chainveyor sections. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, residue holdup removal and dispositioning (where required), packaging of the glove box or equipment and waste, and transporting of glove boxes and chainveyor sections to a size reduction facility (if required). This set contains glove boxes and equipment that, because of size and contamination levels, are intended to be dismantled in situ. It is anticipated that soft-sided containments (SSCs) will be utilized for the in situ dismantlement.

The scope of this set is comprised of C50 sweep gage, C60 transfer box, C60A T-base lathe, C70 inspection box, C75 chuck storage box, C80 Sheffield gage, and C85 Sheffield gage. Included also is a section of the chainveyor centerline S5, from a point near the junction with glove box C65 to a point near the junction with glove box C80.

Equipment and glove boxes within this set are expected to be isolated and separated at logical and convenient points up to approximately 8ft above the floor, with any residual removal below the approximate 8ft line to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

It is anticipated that chainveyor transfer lines and chainveyor centerlines can be successfully decontaminated to the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.

**Set C5****Glove Boxes 15, 25, 25A/B, 40, 45, 45A/B, 65, 65A/B, CVs Removal Module C**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of glove boxes, chainveyor sections, and equipment, leaded window removal, electrical and/or mechanical isolation of the identified glove boxes, chainveyor sections, and equipment, any necessary containments for the glove boxes and equipment, and the actual physical removal of specified glove boxes, chainveyor sections, and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the glove boxes, chainveyor sections, and equipment. Tasks associated with these activities, as appropriate, include glove changes, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes and chainveyor sections. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, residue holdup removal and dispositioning (where required), packaging of the glove box or equipment and waste, and transporting of glove boxes and chainveyor sections to a size reduction facility (if required). This set contains glove boxes and equipment that, because of size and contamination levels, are intended to be dismantled in situ. It is anticipated that soft-sided containments (SSCs) will be utilized for the in situ dismantlement.

Identified glove boxes, chainveyor sections, and equipment within this set include C15 bag-out box, C25 transfer box, C25A T-base lathe, C25B T-base lathe, C40 mill, C45 transfer box, C45A T-base lathe, C45B T-base lathe, C65 transfer box, C65A T-base lathe, and C65B T-base lathe. A portion of the chainveyor

transfer lines S8B and S1 and storage line S21 up to approx. 8 ft from the floor, and chainveyor centerline S5, from the east end to a point near the junction with glove box C65, is expected to be removed with this set.

Equipment and glove boxes within this set are expected to be isolated and separated at logical and convenient points up to approximately 8ft above the floor, with any residual removal below the approximate 8ft line to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

It is anticipated that chainveyor transfer lines and chainveyor centerlines can be successfully decontaminated to the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.

#### **Set C6                    C-pit Tanks, Glove Box, & Misc. Removal Module C**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of equipment and a glove box, electrical and/or mechanical isolation of the identified equipment and glove box, any necessary containments for the equipment, and the actual physical removal of specified equipment and glove box. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, personnel resources to produce surveys/scans (radiological and other) and personnel resources to physically dismantle and disposition the equipment. Tasks associated with these activities, as appropriate, include glove changes, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove box. Also included are tasks such as the use of decontamination processes, erection of scaffolding, encapsulation by use of fixatives, residue holdup removal and dispositioning (where required), packaging of the glove box, equipment, and waste. This set contains a glove box and equipment that, because of size, location, and/or contamination levels, are intended to be dismantled in situ. It is anticipated that soft-sided containments (SSCs) will be utilized for the in situ dismantlement of the glove box and tank systems.

Identified equipment and glove box contained in this set includes C-pit pencil tanks, V30 tank, V31 tank, V100 tank and rashig ring removal, C-pit glove box, and the remainder of electrical, mechanical, and miscellaneous items residing in the C-pit area. Also included in the scope is the removal of any miscellaneous items, below approx. 8ft., within C Module itself.

The equipment and the glove box within this set is expected to be isolated and separated at logical and convenient points, with any residual removal to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum..

#### **Set C7                    Chainveyor Removal Module C**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of chainveyor sections, items, and equipment, leaded window removal, electrical and/or mechanical isolation of the identified chainveyor sections, items, and equipment, any necessary containments for the chainveyor sections and equipment, and the actual physical removal of specified chainveyor sections and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the chainveyor sections and equipment. Tasks associated with these activities, as appropriate, include glove changes, protective lead shielding removal, and wipe downs and surveys (radiological and other) of the chainveyor sections. Also included are tasks such as the use of decontamination processes, erection of scaffolding, encapsulation by use of fixatives, packaging of the chainveyor sections, equipment, and waste, and transporting of chainveyor sections to a size reduction facility (if required).

The scope of this set includes the isolation and removal of chainveyor transfer lines S1, S8B, S19, S20, and S22 above the 8ft line and to a logical separation point with adjacent modules/rooms, is expected to be removed and dispositioned. Also planned within this set is the isolation and removal of the chainveyor storage line S21 above the approximate 8ft. line.

Equipment and chainveyor sections within this set are expected to be isolated and separated at logical and convenient points with adjacent modules or rooms.

It is anticipated that chainveyor transfer lines and chainveyor centerlines can be successfully decontaminated to the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.

#### **Set C8                      Mechanical & Electrical Stripout   Module C**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal items and equipment, electrical and/or mechanical isolation of the identified items and equipment, any necessary containments for the equipment, and the actual physical removal of specified items and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically isolate, dismantle, and/or disposition the items and equipment. Tasks associated with these activities, as appropriate, may include the use of decontamination processes, encapsulation by use of fixatives, erection of scaffolding, and packaging of the items, equipment, and waste.

The scope of this set includes the isolation and removal of both mechanical and electrical items (such as conduit, wiring, piping, tubing, ceiling and hangers, etc.) above the approximate 8-ft line through out Module C (less C-pit area). Building wide safety systems, such as fire suppression, life safety/disaster warning, etc., will be taken out as scoped in set U7.

Equipment and items within this set are expected to be isolated and separated at logical and convenient points with adjacent modules or rooms.



**Set D1****Controls, Instruments, Regulators, & Comparator Removal Module D**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of equipment, electrical and/or mechanical isolation of the identified equipment, any necessary containments for the equipment, and the actual physical removal of specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, personnel resources to produce surveys/scans (radiological and other) and personnel resources to physically dismantle and disposition the equipment.

Identified equipment contained in this set includes out-of-line controllers for assorted inspection equipment, segmented gamma scanners and their controllers and data systems, a Zeiss inspection center, Sorenson North AC regulator, optical comparator, controller for laser marking, and the Insta-mark control panel.

Equipment within this set is expected to be isolated and separated at logical and convenient points, with any residual removal to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

**Set D2****Glove Boxes 20, 30, 35, 40, 45, Flanders, & CVs Removal Module D**

This Set is comprised of activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of glove boxes, chainveyors, and equipment, leaded window removal, electrical and/or mechanical isolation of the identified glove boxes and equipment, any necessary containments for the glove boxes and equipment, and the actual physical removal of specified glove boxes, chainveyor sections, and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the glove boxes and equipment. Tasks associated with these activities, as appropriate, include glove changes, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes and chainveyor sections. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, residue holdup removal and dispositioning (where required), packaging of the glove box, chainveyor section, or equipment and waste, and transporting of glove boxes or chainveyor sections to a size reduction facility (if required). Certain glove boxes within this set will be dismantled in situ and require a SSC.

Identified glove boxes, chainveyors, and equipment within this set include D20 mark and wash box (and Flanders filter), D30 weighing box, D35, and D40 and D45 in-process inspection boxes. A portion of the chainveyor transfer lines S1, S9, S10 and chainveyor storage line S13 up to approx. 8ft. from the floor, and the lower section of chainveyor centerline S6, from the east end to a point near the junction with glove box D65, is expected to be isolated and removed with this set.

Equipment, chainveyors, and glove boxes within this set are expected to be isolated and separated at logical and convenient points up to approximately 8ft above the floor, with any residual removal below the approximate 8ft line to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

It is anticipated that chainveyor transfer lines and chainveyor centerlines can be successfully decontaminated to the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.

**Set D3****Glove Boxes 50, 55, & 65 Removal Module D**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of glove boxes and equipment, leaded window removal, electrical and/or mechanical isolation of the identified glove boxes and equipment, any necessary containments for the glove boxes and equipment, and the actual physical removal of specified glove boxes and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the glove boxes and equipment. Tasks associated with these activities, as appropriate, include glove changes, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, residue holdup removal and dispositioning (where required), packaging of the glove boxes, equipment, and waste. This set is comprised of glove boxes that, because of size, are intended to be dismantled in situ. It is planned that soft-sided containment (SSCs) will be utilized for the in situ dismantlement.

Identified glove boxes and equipment within this set include D50 sweep gage, D55 sweep gage, and D65 sweep gage.

Equipment and glove boxes within this set are expected to be isolated and separated at logical and convenient points up to approximately 8ft above the floor, with any residual removal below the approximate 8ft line to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

It is anticipated that the above glove boxes and equipment will meet the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.

**Set D4****Glove Boxes 70, 75, 80, 85, 90, 95, & CV Removal Module D**

This Set is comprised of activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of glove boxes, chainveyors, and equipment, leaded window removal, electrical and/or mechanical isolation of the identified glove boxes and equipment, any necessary containments for the glove boxes and equipment, and the actual physical removal of specified glove boxes, chainveyor sections, and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the glove boxes and equipment. Tasks associated with these activities, as appropriate, include glove changes, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes and chainveyor sections. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, residue holdup removal and dispositioning (where required), packaging of the glove box, chainveyor section, or equipment and waste, and transporting of glove boxes or chainveyor sections to a size reduction facility (if required).

Identified glove boxes, chainveyors, and equipment within this set include D70 calibration box, D75 in-process inspection box, D80 part carrier storage box, D85 optical comparator, D90 gage calibration box, and D95 in-process inspection box. The lower section of chainveyor centerline S6, from a point near the junction with glove box D65 to a point near the junction with glove box D90, is expected to be isolated and removed with this set.

Equipment, chainveyors, and glove boxes within this set are expected to be isolated and separated at logical and convenient points up to approximately 8ft above the floor, with any residual removal below the approximate 8ft line to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

It is anticipated that chainveyor transfer lines, chainveyor centerlines, and the specified glove boxes and equipment will comply with the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.

#### **Set D5                      Glove Boxes 105, 110, 115, CVs, & Misc<8' Removal Module D**

This Set contains activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of glove boxes, chainveyor sections, and equipment, leaded window removal, electrical and/or mechanical isolation of the identified glove boxes, chainveyor sections, and equipment, any necessary containments for the glove boxes and equipment, and the actual physical removal of specified glove boxes, chainveyor sections, and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the glove boxes, chainveyor sections, and equipment. Tasks associated with these activities, as appropriate, include glove changes, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes and chainveyor sections. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, packaging of the glove boxes, equipment, and waste, and transporting of glove boxes and chainveyor sections to a size reduction facility (if required). This set contains glove boxes and equipment that, because of size, are intended to be dismantled in situ. It is anticipated that soft-sided containments (SSCs) will be utilized for the in situ dismantlement.

Identified glove boxes, chainveyor sections, and equipment within this set include D105 and D110 Zeiss inspection centers and D115 gage check and storage box. A portion of the chainveyor transfer lines S15 and S22 and chainveyor storage line S13 up to approx. 8 ft from the floor, and the lower section of chainveyor centerline S6, from the west end to a point near the junction with glove box D90, is expected to be removed with this set. Also included in this set is the removal of any other miscellaneous or residual items that are below approximately 8ft from the floor.

Equipment and glove boxes within this set are expected to be isolated and separated at logical and convenient points up to approximately 8ft above the floor, with any residual removal below the approximate 8ft line to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

It is anticipated that chainveyor transfer lines, chainveyor centerlines, and the glove boxes and equipment within will comply with the Surface Contaminated Object (SCO) criteria, thus necessitating the removal of leaded glass windows.

#### **Set D6                      Chainveyors Removal Module D**

This Set is comprised of activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of chainveyor sections, items, and equipment, leaded window removal, electrical and/or mechanical isolation of the identified chainveyor sections, items, and equipment, any necessary containments for the chainveyor sections and equipment, and the actual physical removal of specified chainveyor sections and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the chainveyor sections and equipment. Tasks associated with these activities, as appropriate, include glove changes, erection of scaffolding, protective lead shielding removal, and wipe downs and surveys (radiological and other) of the chainveyor sections. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, packaging of the chainveyor sections, equipment, and waste, and transporting of chainveyor sections to a size reduction facility (if required).

The scope of this set includes the isolation and removal of chainveyor transfer lines S1, S9, S10, S15, and S22 above the 8ft line and to a logical separation point with adjacent modules/rooms, is expected to be

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removed and dispositioned. In addition, the isolation and removal of chainveyor storage line S13 above the 8ft line is part of the scope of this set. Also planned within this set is the isolation and removal of the entire upper section of the chainveyor centerline S6.

Equipment and chainveyor sections within this set are expected to be isolated and separated at logical and convenient points with adjacent modules or rooms.

It is anticipated that chainveyor transfer lines, chainveyor storage lines, and chainveyor centerlines will comply with the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.

#### **Set D7                      Mechanical & Electrical Stripout Module D**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal items and equipment, electrical and/or mechanical isolation of the identified items and equipment, any necessary containments for the equipment, and the actual physical removal of specified items and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically isolate, dismantle, and/or disposition the items and equipment. Tasks associated with these activities, as appropriate, may include the use of decontamination processes, erection of scaffolding, encapsulation by use of fixatives, and packaging of the items, equipment, and waste.

The scope of this set includes the isolation and removal of both mechanical and electrical items (such as conduit, wiring, piping, tubing, ceiling and hangers, etc.) above the approximate 8-ft line throughout Module D. Building wide safety systems, such as fire suppression, life safety/disaster warning, etc., will be taken out as scoped in set U7.

Equipment and items within this set are expected to be isolated and separated at logical and convenient points with adjacent modules or rooms.

**Set E1****EB Welder Power Sources, SGSs, & Racks Removal Module E**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of equipment, electrical and/or mechanical isolation of the identified equipment, any necessary containments for the equipment, and the actual physical removal of specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, personnel resources to produce surveys/scans (radiological and other) and personnel resources to physically dismantle and disposition the equipment.

Specific equipment contained in this set includes Electron Beam (EB) welder power sources, EB controllers, segmented gamma scanners their controls and data systems, miscellaneous other controllers outside the glove box line, and storage racks located between glove boxes E25 and E45.

Equipment within this set is expected to be isolated and separated at logical and convenient points, with any residual removal to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

**Set E2****Glove Boxes 20, 25, 30, & CVs Removal Module E**

This Set is comprised of activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of glove boxes, chainveyors, and equipment, leaded window removal, electrical and/or mechanical isolation of the identified glove boxes and equipment, any necessary containments for the glove boxes and equipment, and the actual physical removal of specified glove boxes, chainveyor sections, and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the glove boxes and equipment. Tasks associated with these activities, as appropriate, may include glove changes, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes and chainveyor sections. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, residue holdup removal and dispositioning (where required), packaging of the glove box, chainveyor section, or equipment and waste, and transporting of glove boxes or chainveyor sections to a size reduction facility (if required).

Identified glove boxes, chainveyors, and equipment within this set include E20 surface plate box, E25 leak test and brushing box, and E30 eddy current box. The lower section of chainveyor centerline S7, from a point near the junction with glove box E40 to the east end, is expected to be isolated and removed with this set. A portion of the chainveyor transfer lines S1, S10, and S11 up to approx. 8ft. from the floor, is also planned for isolation and removal in this set.

Equipment, chainveyors, and glove boxes within this set are expected to be isolated and separated at logical and convenient points up to approximately 8ft above the floor, with any residual removal below the approximate 8ft line to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

It is anticipated that chainveyor transfer lines, chainveyor centerlines, and the specified glove boxes and equipment will comply with the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.

**Set E3****Glove Boxes 95, 105, 110, 115, 125, & CVs Removal Module E**

This Set is consists of activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of glove boxes, chainveyors, and equipment, leaded window removal, electrical and/or mechanical isolation of the identified glove boxes and equipment, any necessary containments for the glove boxes and equipment, and the actual physical removal of specified glove boxes, chainveyor sections, and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the glove boxes and equipment. Tasks associated with these activities, as appropriate, may include glove changes, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes and chainveyor sections. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, residue holdup removal and dispositioning (where required), packaging of the glove box, chainveyor section, or equipment and waste, and transporting of glove boxes or chainveyor sections to a size reduction facility (if required).

Glove boxes, chainveyors, and equipment scoped within this set include E95 brushing box, E105 weighing box, E110 brushing box, E115 storage box, and E125 ultrasonic /vapor degreasing cleaning box. The lower section of chainveyor centerline S7, from a point near the junction with glove box E80 to the west end, is expected to be isolated and removed with this set. A portion of the chainveyor transfer lines S15, up to approx. 8ft. from the floor, is also planned for isolation and removal in this set.

Equipment, chainveyors, and glove boxes within this set are expected to be isolated and separated at logical and convenient points up to approximately 8ft above the floor, with any residual removal below the approximate 8ft line to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

It is anticipated that chainveyor transfer lines, chainveyor centerlines, and the specified glove boxes and equipment will comply with the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.

**Set E4****Glove Boxes 60, 65, 70, & CV Removal Module E**

This Set is comprised of activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of glove boxes, chainveyors, and equipment, leaded window removal, electrical and/or mechanical isolation of the identified glove boxes and equipment, any necessary containments for the glove boxes and equipment, and the actual physical removal of specified glove boxes, chainveyor sections, and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the glove boxes and equipment. Tasks associated with these activities, as appropriate, include glove changes, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes and chainveyor sections. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, residue holdup removal and dispositioning (where required), packaging of the glove box, chainveyor section, or equipment and waste, and transporting of glove boxes or chainveyor sections to a size reduction facility (if required).

Identified glove boxes, chainveyors, and equipment within this set include E60 leak test, E65 ultrasonic/vapor degreaser cleaning box, and E70 comparator/weld gun rebuild box. The lower section of chainveyor centerline S7, from a point near the junction with glove box E40 to a point near the junction of glove box E80, is expected to be isolated and removed with this set.

Equipment, chainveyors, and glove boxes within this set are expected to be isolated and separated at logical and convenient points up to approximately 8ft above the floor, with any residual removal below the approximate 8ft line to be accomplished under miscellaneous items removal in another set within this

module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

It is anticipated that chainveyor transfer lines, chainveyor centerlines, and the specified glove boxes and equipment will comply with the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.

#### **Set E5                      Glove Boxes 40, 45, 55, 80, 85, & Misc<8' Removal Module E**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of glove boxes and equipment, leaded window removal, electrical and/or mechanical isolation of the identified glove boxes and equipment, any necessary containments for the glove boxes and equipment, and the actual physical removal of specified glove boxes and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the glove boxes and equipment. Tasks associated with these activities, as appropriate, include glove changes, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, residue holdup removal and dispositioning (where required), packaging of the glove boxes, equipment, and waste. This set is comprised of glove boxes that, because of size, are intended to be dismantled in situ. It is planned that soft-sided containment (SSCs) will be utilized for the in situ dismantlement.

Identified glove boxes and equipment within this set include E40 EB welder, E45 EB welder, E55 storage box, E80 EB welder, and E85 EB welder. Also included in the scope is the removal of any miscellaneous items, below approx. 8ft., throughout E Module.

Equipment and glove boxes within this set are expected to be isolated and separated at logical and convenient points up to approximately 8ft above the floor, with any residual removal below the approximate 8ft line to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

It is anticipated that the above glove boxes and equipment will meet the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.

#### **Set E6                      Chainveyors Removal Module E**

The activities of this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of chainveyor sections, items, and equipment, leaded window removal, electrical and/or mechanical isolation of the identified chainveyor sections, items, and equipment, any necessary containments for the chainveyor sections and equipment, and the actual physical removal of specified chainveyor sections and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the chainveyor sections and equipment. Tasks associated with these activities, as appropriate, may include glove changes, erection of scaffolding, protective lead shielding removal, and wipe downs and surveys (radiological and other) of the chainveyor sections. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, packaging of the chainveyor sections, equipment, and waste, and transporting of chainveyor sections to a size reduction facility (if required).

The scope of this set includes the isolation and removal of chainveyor transfer lines S1, S10, and S11 above the 8ft line and to a logical separation point with adjacent modules/rooms, is expected to be removed and dispositioned. In addition, the isolation and removal of chainveyor storage line S15 above the 8ft line is

part of the scope of this set. Also planned within this set is the isolation and removal of the entire upper section of the chainveyor centerline S7.

Equipment and chainveyor sections within this set are expected to be isolated and separated at logical and convenient points with adjacent modules or rooms.

It is anticipated that chainveyor transfer lines, chainveyor storage lines, and chainveyor centerlines will comply with the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.

#### **Set E7                      Electrical & Mechanical Stripout   Module E**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal items and equipment, electrical and/or mechanical isolation of the identified items and equipment, any necessary containments for the equipment, and the actual physical removal of specified items and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically isolate, dismantle, and/or disposition the items and equipment. Tasks associated with these activities, as appropriate, may include the use of decontamination processes, erection of scaffolding, encapsulation by use of fixatives, and packaging of the items, equipment, and waste.

The scope of this set includes the isolation and removal of both mechanical and electrical items (such as conduit, wiring, piping, tubing, ceiling and hangers, etc.) above the approximate 8-ft line throughout Module E. Building wide safety systems, such as fire suppression, life safety/disaster warning, etc., will be taken out as scoped in set U7.

Equipment and items within this set are expected to be isolated and separated at logical and convenient points with adjacent modules or rooms.



## **Set F2                    Mass Spec Lab Equip-Rm 127 Stripout   Module F**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of equipment, electrical and/or mechanical isolation of the identified equipment, any necessary containments for the equipment, and the actual physical removal of specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, personnel resources to produce surveys/scans (radiological and other) and personnel resources to physically dismantle and disposition the equipment.

The scope of this set consists of the removal of all equipment and miscellaneous items, which reside below approximate 8ft. from the floor, in Room 127 (Mass Spectroscopy Lab) of Module F.

Equipment within this set is expected to be isolated and separated at logical and convenient points. Residual items remaining in the room above the approximate 8ft. level will be removed in Set F4. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

## **Set F3                    Rooms 125&125A/B Mechanical & Electrical Stripout   Module F**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal items and equipment, electrical and/or mechanical isolation of the identified items and equipment, any necessary containments for the equipment, and the actual physical removal of specified items and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically isolate, dismantle, and/or disposition the items and equipment. Tasks associated with these activities, as appropriate, may include the use of decontamination processes, erection of scaffolding, encapsulation by use of fixatives, and packaging of the items, equipment, and waste.

The scope of this set includes the isolation and removal of both mechanical and electrical items (such as conduit, wiring, piping, tubing, ceiling and hangers, etc.) above the approximate 8-ft line throughout room 125 and the Build rooms 125A & 125B. Building wide safety systems, such as fire suppression, life safety/disaster warning, health physics vacuum, etc., will be taken out as scoped in set U7.

Equipment and items within this set are expected to be isolated and separated at logical and convenient points with adjacent modules or rooms.

## **Set F4                    Rooms 126 & 127 Mechanical & Electrical Stripout   Module F**

Activities within this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal items and equipment, electrical and/or mechanical isolation of the identified items and equipment, any necessary containments for the equipment, and the actual physical removal of specified items and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically isolate, dismantle, and/or disposition the items and equipment. Tasks associated with these activities, as appropriate, include the use of decontamination processes, erection of scaffolding, encapsulation by use of fixatives, and packaging of the items, equipment, and waste.

Included in the scope of this set is the isolation and removal of both mechanical and electrical items (such as conduit, wiring, piping, tubing, ceiling and hangers, etc.) above the approximate 8-ft line throughout rooms 126 and 127. Building wide safety systems, such as fire suppression, life safety/disaster warning, etc., will be taken out as scoped in set U7.

Equipment and items within this set are expected to be isolated and separated at logical and convenient points with adjacent modules or rooms.

**Set F5****Rooms 125, 125A&B, 126, & Misc<8' Stripout Module F**

Activities within this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal items and equipment, electrical and/or mechanical isolation of any miscellaneous items and equipment, any necessary containments for the equipment, and the actual physical removal of items and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically isolate, dismantle, and/or disposition the items and equipment. Tasks associated with these activities, as appropriate, include the use of decontamination processes, erection of scaffolding, encapsulation by use of fixatives, and packaging of the items, equipment, and waste.

Included in the scope of this set is the isolation and removal of any miscellaneous items below the approximate 8ft. level in rooms 125, 1225A, 125B, and 126. (Room 127 is supported in Set F2) Any building wide safety systems within this physical boundary, such as fire suppression, life safety/disaster warning, health physics vacuum, etc., will be taken out as scoped in set U7.

Equipment and items within this set are expected to be isolated and separated at logical and convenient points with adjacent modules or rooms.

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**Set G1****Misc. <8' Various Rooms and Equipment Removal Module G**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of equipment, electrical and/or mechanical isolation of the identified equipment, any necessary containments for the equipment, and the actual physical removal of specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, personnel resources to produce surveys/scans (radiological and other) and personnel resources to physically dismantle and disposition the equipment.

Specific equipment contained in this set includes Non-Destructive Testing (NDT) scanner units in room 130A, distilled water drain system in room 130A, and an optical comparator. Also scoped in this set is the isolation and removal of any miscellaneous items below approximately 8ft. in rooms 130, 130A, 130B, 131, 132, 132A, 133, 133A, 186, and 187.

Equipment within this set is expected to be isolated and separated at logical and convenient points with adjacent modules or rooms. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

**Set G2****Mechanical & Electrical Stripout Module G**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal items and equipment, electrical and/or mechanical isolation of the identified items and equipment, any necessary containments for the equipment, and the actual physical removal of specified items and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically isolate, dismantle, and/or disposition the items and equipment. Tasks associated with these activities, as appropriate, may include the use of decontamination processes, encapsulation by use of fixatives, erection of scaffolding, and packaging of the items, equipment, and waste.

The scope of this set includes the isolation and removal of both mechanical and electrical items (such as conduit, wiring, piping, tubing, ceiling and hangers, etc.) above the approximate 8-ft line throughout Module G. Building wide safety systems, such as fire suppression, life safety/disaster warning, nuclear criticality safety, etc., will be decommissioned and removed as scoped in set U7.

Equipment and items within this set are expected to be isolated and separated at logical and convenient points with adjacent modules or rooms.

**Set H1****H-Vault, Misc. & Mechanical and Electrical Stripout Module H**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal items and equipment, electrical and/or mechanical isolation of the identified items and equipment, any necessary containments for the equipment, and the actual physical removal of specified items and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically isolate, dismantle, and/or disposition the items and equipment. Tasks associated with these activities, as appropriate, may include the use of decontamination processes, encapsulation by use of fixatives, erection of scaffolding, and packaging of the items, equipment, and waste.

The scope of this set includes the isolation and removal of both mechanical and electrical items (such as conduit, wiring, piping, tubing, ceiling and hangers, etc.) above the approximate 8-ft line throughout Module H (excluding rms 189, 190, and 191). Building wide safety systems, such as fire suppression, life safety/disaster warning, nuclear criticality safety, etc., will be decommissioned and removed as scoped in set U7. The removal of miscellaneous items and/or equipment in H Module (less rms 189, 190, and 191) is contained within the scope of this set. This encompasses H vault shelving and autoclave hydraulic doors.

Equipment and items within this set are expected to be isolated and separated at logical and convenient points with adjacent modules or rooms.

**Set H2****Rooms 189, 190, & 191 Stripout Module H**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal items and equipment, electrical and/or mechanical isolation of the identified items and equipment, any necessary containments for the equipment, and the actual physical removal of specified items and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically isolate, dismantle, and/or disposition the items and equipment. Tasks associated with these activities, as appropriate, may include the use of decontamination processes, erection of scaffolding, encapsulation by use of fixatives, and packaging of the items, equipment, and waste.

The scope of this set includes the isolation and removal of both mechanical and electrical items (such as conduit, wiring, piping, tubing, ceiling and hangers, etc.), and any miscellaneous items throughout rooms 189, 190, and 191 of Module H. Building wide safety systems, such as fire suppression, life safety/disaster warning, nuclear criticality safety, etc., will be decommissioned and removed as scoped in set U7.

Equipment and items within this set are expected to be isolated and separated at logical and convenient points with adjacent modules or rooms.

**Set H3****Autoclaves 135A, B, C, & D Removal Module H**

This set includes activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal items and equipment, electrical and/or mechanical isolation of the identified items and equipment, any necessary containments for the equipment, and the actual physical removal of specified items and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically isolate, dismantle, and/or disposition the items and equipment. Tasks associated with these activities, as appropriate, may include the use of decontamination processes, encapsulation by use of fixatives, and packaging of the items, equipment, and waste.

Elements of scope for this set include the isolation, removal, and disposition of the autoclave units within H Module. Inclusive in this is the removal of containment vessels and pumps.

Equipment and items within this set are expected to be isolated and separated at logical and convenient points with adjacent modules or rooms.

**Set J1****J Vault, Pendants, Racks, Controls, O<sub>2</sub> Analyzers Removal Module J**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of equipment, electrical and/or mechanical isolation of the identified equipment, any necessary containments for the equipment, and the actual physical removal of specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, personnel resources to produce surveys/scans (radiological and other) and personnel resources to physically dismantle and disposition the equipment.

Identified equipment contained in this set includes J vault interior removal (including shelving and lead shielding), storage racks (including lead shielding), multiple furnace control panels, chainveyor pendant removal from the S16 transfer/center line, and O<sub>2</sub> analyzers throughout the module (including panels and tubing up to approx. 8 ft from the floor).

Equipment within this set is expected to be isolated and separated at logical and convenient points, with any residual removal to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

**Set J2****Glove Boxes 15, 25, 35, 45, 55, CVs, Misc. <8ft, & Stokes Pumps Removal Module J**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of glove boxes, chainveyors, and equipment, leaded window removal, electrical and/or mechanical isolation of the identified glove boxes and equipment, any necessary containments for the glove boxes and equipment, and the actual physical removal of specified glove boxes, chainveyor sections, and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the glove boxes, chainveyor sections, and equipment. Tasks associated with these activities, as appropriate, include glove changes, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes, equipment, and chainveyor sections. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, residue holdup removal and dispositioning (where required), packaging of the glove box, chainveyor section, or equipment and waste, and transporting of glove boxes to a size reduction facility (if required). This set is comprised of glove boxes that, because of size and contamination levels, are intended to be dismantled in situ. It is planned that soft-sided containment (SSCs) will be utilized for the in situ dismantlement.

Identified glove boxes, chainveyors, and equipment within this set include J15 bottom-pour furnace, J25 oxide burn furnace, J35 tilt-pour furnace, J45 tilt-pour furnace, J55 tilt-pour furnace, and the pit furnaces associated with each tilt-pour furnace. The Stokes pumps associated with glove box furnaces 25, 35, 45, and 55 will be isolated, dismantled, and dispositioned by this set. Also included in this set is a section of the chainveyor transfer line S24, up to approx. 8ft from the floor, and transfer/center line S16 from inside J vault to a point near the junction with glove box J55. A filter box and any miscellaneous items or equipment, located within J Module and less than approximately 8ft. from the floor, is planned to be removed.

Equipment, chainveyors, and glove boxes within this set are expected to be isolated and separated at logical and convenient points up to approximately 8ft above the floor, with any residual removal below the approximate 8ft line to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

It is anticipated that chainveyor transfer lines and chainveyor centerlines can be successfully decontaminated to the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.

#### **Set J3                   Glove Boxes 60, 65, CVs, & Lepal System Removal Module J**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of glove boxes and equipment, leaded window removal, electrical and/or mechanical isolation of the identified glove boxes and equipment, any necessary containments for the glove boxes and equipment, and the actual physical removal of specified glove boxes and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the glove boxes and equipment. Tasks associated with these activities, as appropriate, include glove changes, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, residue holdup removal and dispositioning (where required), packaging of the glove box or equipment and waste, and transporting of glove boxes to a size reduction facility (if required).

Identified glove boxes, chainveyor sections, and equipment within this set include J60 oxide burn furnace, Lepal cooling systems, and J65 mold preparation box. A portion of chainveyor transfer/center line S16, up to approx. 8 ft from the floor, from the west end to a point near the junction with glove box J55, is expected to be removed with this set.

Equipment within this set is expected to be isolated and separated at logical and convenient points up to approximately 8ft above the floor, with any residual removal below the approximate 8ft line to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

It is anticipated that chainveyor transfer lines and chainveyor centerlines can be successfully decontaminated to the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.

#### **Set J4                   Glove Boxes 10, 20, 30, & 40 Dispositioning Module J**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of glove boxes, chainveyors, and equipment, any necessary containments for the glove boxes and equipment, and the actual physical repackaging for further disassembly of specified glove boxes and equipment. Size reduction of glove boxes in this set is anticipated to be done in an ITC. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the glove boxes and equipment. Tasks associated with these activities, as appropriate, include glove changes, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes and equipment. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, packaging of the glove box and equipment and waste, and transporting of glove boxes to a size reduction facility. This set is comprised of glove boxes that have been previously removed from J Module. It is anticipated that these glove boxes will dismantled in a size reduction facility.

Identified glove boxes and equipment within this set include J10 furnace, J20 furnace, J30 furnace, and J40 furnace.

#### **Set J5                   CVs, Filter Box, & Mechanical & Electrical Stripout Module J**

This Set is comprised of activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of chainveyor sections, items, and equipment, leaded window removal, electrical and/or mechanical isolation of the identified chainveyor sections, items, and equipment, any necessary containments for the chainveyor sections and equipment, and the actual physical removal of specified chainveyor sections and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the chainveyor sections and equipment. Tasks associated with these activities, as appropriate, may include glove changes, erection of scaffolding, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, residue holdup removal and dispositioning (where required), packaging of the chainveyor sections, equipment, and waste, and transporting of chainveyor sections to a size reduction facility (if required).

The scope of this set includes the isolation and removal of both mechanical and electrical items (such as conduit, wiring, piping, tubing, hangers, etc.) above the approximate 8-ft line in J Module. Building wide safety systems, such as fire suppression, life safety/disaster warning, etc., will be taken out at a later date, as scoped in set U7. The remaining portions of chainveyor transfer lines S16 and S24 above the 8ft line and to a logical separation point with adjacent modules/rooms, is expected to be removed and dispositioned. Additionally, a filter box will be isolated and removed.

Equipment and glove boxes within this set are expected to be isolated and separated at logical and convenient points with adjacent modules or rooms.

It is anticipated that chainveyor transfer lines and chainveyor centerlines can be successfully decontaminated to the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.



## **Set K1 CV & Retriever Pendants, Controls, & O<sub>2</sub> Analyzers Removal Module K**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of equipment, electrical and/or mechanical isolation of the identified equipment, any necessary containments for the equipment, and the actual physical removal of specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, personnel resources to produce surveys/scans (radiological and other) and personnel resources to physically dismantle and disposition the equipment. Tasks associated with these activities, as appropriate, include wipe downs and surveys (radiological and other) of the equipment. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, and packaging of equipment and waste.

Identified equipment contained in this set includes glove box K55/65 furnace control panel, K75/85 furnace control panel, chainveyor pendant removal from the S20 transfer line, pendant removal from the X-Y Retriever, and O<sub>2</sub> analyzers throughout the module (including panels and tubing up to approx. 8 ft from the floor).

Equipment within this set is expected to be isolated and separated at logical and convenient points, with any residual removal to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

## **Set K2 Glove Boxes 35, 45, 95, CVs, & Hot Tool Storage box Removal Module K**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of glove boxes and equipment, leaded window removal, electrical and/or mechanical isolation of the identified glove boxes and equipment, any necessary containments for the glove boxes and equipment, and the actual physical removal of specified glove boxes and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the glove boxes and equipment. Tasks associated with these activities, as appropriate, include glove changes, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes. Other tasks such as the use of decontamination processes, encapsulation by use of fixatives, residue holdup removal and positioning (where required), packaging of the glove box or equipment and waste, and transporting of glove boxes to a size reduction facility (if required) are included.

Identified glove boxes within this set include K35 storage box, K45 charge preparation box, and K95 ingot shear. A portion of chainveyor transfer lines S16, S18, and S20, up to approx. 8 ft from the floor, and chainveyor centerline, from a point near the junction with the shuttle box to a point near the junction with glove box K55, is expected to be removed with this set. Equipment removal encompasses the removal of the contaminated "hot" toolbox.

Equipment within this set is expected to be isolated and separated at logical and convenient points up to approximately 8ft above the floor, with any residual removal below the approximate 8ft line to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

It is anticipated that chainveyor transfer lines and chainveyor centerlines can be successfully decontaminated to the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.

**Set K3****Glove Boxes 55, 65, 75, 85, CV, & Stokes Pumps Removal Module K**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of glove boxes, chainveyors, and equipment, leaded window removal, electrical and/or mechanical isolation of the identified glove boxes and equipment, any necessary containments for the glove boxes and equipment, and the actual physical removal of specified glove boxes, chainveyor sections, and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the glove boxes, chainveyor sections, and equipment. Tasks associated with these activities, as appropriate, include glove changes, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes, equipment, and chainveyor sections. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, residue holdup removal and dispositioning (where required), packaging of the glove box, chainveyor section, or equipment and waste, and transporting of glove boxes to a size reduction facility (if required). This set is comprised of glove boxes that, because of size and contamination levels, are intended to be dismantled in situ. It is planned that soft-sided containment (SSCs) will be utilized for the in situ dismantlement.

Identified glove boxes, chainveyors, and equipment within this set include K55 tilt-pour furnace, K65 tilt-pour furnace, K75 tilt-pour furnace, and K85 tilt-pour furnace. The Stokes pumps associated with glove box furnaces 55, 65, 75, and 85 will be isolated, dismantled, and dispositioned by this set. Also included in this set is a section of the transfer/center line S16 from a point near the junction with glove box K55 to a point near the junction with glove box K85. Any miscellaneous items or equipment, located within K Module and less than approximately 8ft. from the floor, is planned to be removed.

Equipment, chainveyors, and glove boxes within this set are expected to be isolated and separated at logical and convenient points up to approximately 8ft above the floor, with any residual removal below the approximate 8ft line to be accomplished under miscellaneous items removal in another set within this module. The intent is to perform in the most efficient manner and reduce "surgical removals" to a minimum.

It is anticipated that chainveyor transfer lines and chainveyor centerlines can be successfully decontaminated to the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.

**Set K4****XY Retriever Removal & Shuttle Box Cleanout Module K**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal items and equipment, electrical and/or mechanical isolation of the identified items and equipment, any necessary containments for the equipment, and the actual physical removal of specified items and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically isolate, dismantle, and/or disposition the items and equipment. Tasks associated with these activities, as appropriate, include the use of decontamination processes, erection of scaffolding, encapsulation by use of fixatives, residue holdup removal and dispositioning, and packaging of the items, equipment, and waste.

The scope of this set includes the isolation and removal of the X-Y Retriever. Dismantlement tasks include the removal of the lead-shielded positions, removal of the overhead bridge crane, materials in the air lock, and strip out of the Retriever shuttle box.

Equipment and items within this set are expected to be isolated and separated at logical and convenient points with adjacent modules or rooms.

**Set K5****CVs & Mechanical & Electrical Stripout Module K**

This Set is comprised of activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of chainveyor sections, items, and equipment, leaded window removal, electrical and/or mechanical isolation of the identified chainveyor sections, items, and equipment, any necessary containments for the chainveyor sections and equipment, and the actual physical removal of specified chainveyor sections and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the chainveyor sections and equipment. Tasks associated with these activities, as appropriate, may include glove changes, erection of scaffolding, protective lead shielding removal, glove box interior strip out of accessible items, and wipe downs and surveys (radiological and other) of the glove boxes. Also included are tasks such as the use of decontamination processes, encapsulation by use of fixatives, residue holdup removal and dispositioning (where required), packaging of the chainveyor sections, equipment, and waste, and transporting of chainveyor sections to a size reduction facility (if required).

The scope of this set includes the isolation and removal of both mechanical and electrical items (such as conduit, wiring, piping, tubing, hangers, etc.) above the approximate 8-ft line in K Module. Building wide safety systems, such as fire suppression, life safety/disaster warning, etc., will be taken out at a later date, as scoped in set U7. A portion of chainveyor transfer lines S16, S81, and S24 above the 8ft line and to a logical separation point with adjacent modules/rooms, is expected to be removed and dispositioned.

Equipment and glove boxes within this set are expected to be isolated and separated at logical and convenient points with adjacent modules or rooms.

It is anticipated that chainveyor transfer lines and chainveyor centerlines can be successfully decontaminated to the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.

## **Set 01                      Equipment Removal Rm 220**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified components, any necessary containments for the equipment, and the actual physical removal of the specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include residual liquids drainings, wipe downs and surveys (radiological and other) of the equipment, the use of decontamination processes (as necessary), and packaging of the components or equipment and waste removal.

Set 1 consist of the removal of components in room 220 that are no longer required to support operations on the first floor. Major components in this category are: Equipment used to support the Autoclaves in Module H (helium panels- 5, compressor skids-4, and hydraulic storage tanks), Process Water Cooling tank (V-50) and re-circulation pumps (P-17A/B), Misc. storage cabinets (approx. 70), fenced storage areas and contained equipment (3), Pumps and heat exchangers P-2A/B & E2-A/B, Dehumidifier components (R-5, 6, 7, P-105, 106, 107, PU-9 through 14), and de-mineralized water storage tank (142-050). Set 1 includes disposition and clean out of rooms 221, 222, 223, 230, 231, and 232. Set 1 scope includes the removal of electrical conduit/wiring, instrumentation, piping, and ducting associated with the components within Set 1, up to approx. 8ft. in height or a more logical isolation point if appropriate.

## **Set 02                      Plenum 107 Removal**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified components, any necessary containments for the equipment, and the actual physical removal of the specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include residual liquids drainings, wipe downs and surveys (radiological and other) of the equipment, the use of decontamination processes (as necessary), and packaging of the components or equipment and waste removal.

Set 2 consist of the removal of the Zone 1/1A exhaust from Module H Vaults, Module G hoods and down draft tables, and a Module F hood. Major components contained in this set include PL-107, FU-31, and fans F-117A/B. Set 2 scope includes the removal of electrical conduit/wiring, instrumentation, piping, and ducting associated with the components within Set 2, up to approx. 8 feet in height or a more logical isolation point if appropriate.

## **Set 03                      Plenums 106 & 108 Removal**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified components, any necessary containments for the equipment, and the actual physical removal of the specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include residual liquids drainings, wipe downs and surveys (radiological and other) of the equipment, the use of decontamination processes (as necessary), and packaging of the components or equipment and waste removal.

Set 3 consist of the removal of supply and exhaust systems from Module F. The Module F exhaust is via PL-108 (exhaust from the Module F's Dry Room, 125) and PL-106 (exhaust from Module F's down draft

rooms, 125A/B and hoods). Air to the dry room is supplied by Fans F-9A/B. F-9A/B also supply air to the downdraft rooms. Other major components contained within this set include: exhaust fans F-116A/B and F-118A/B, filter units FU-29, 30, and 117A/B, heat chamber HC-106, air supply equipment FU-19 and F-9A/B. In addition the set includes dehumidification components DU-17A/B, DU-18A/B, and CU-9, CU-8. Set 3 contains the electrical conduit/wiring, instrumentation, piping, and ducting associated with the components within Set 3, up to approx. 8 feet in height or a more logical isolation point if appropriate.

#### **Set 04                    Plenum 105 Removal**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified components, any necessary containments for the equipment, and the actual physical removal of the specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include residual liquids drainings, wipe downs and surveys (radiological and other) of the equipment, the use of decontamination processes (as necessary), and packaging of the components or equipment and waste removal.

Set 4 consist of the supply and exhaust air for modules D & E's dry glove box systems. Components of this system include PL-105, F-115A/B, FU-18, F-8A/B, FU-115A/B, and dehumidifiers DU-15A/B and 16A/B. Set 4 also includes the health physics vacuum pumps and associated second floor ducting. Set 4 contains the electrical conduit/wiring, instrumentation, piping, and ducting associated with the components within Set 4, up to approx. 8 feet in height or a more logical isolation point if appropriate.

#### **Set 06                    Plenums 101 & 103 Removal**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified components, any necessary containments for the equipment, and the actual physical removal of the specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include residual liquids drainings, wipe downs and surveys (radiological and other) of the equipment, the use of decontamination processes (as necessary), and packaging of the components or equipment and waste removal.

Set 6 consist of the removal of Module A, B, and C's ventilation inert equipment. Major components contained within this set are; plenums PL-101 and 103, heat chambers HC-101 and 102, and fans F-101A/B, F-111A/B. Set 6 also contains the electrical conduit/wiring, instrumentation, piping, and ducting associated with the components within Set 6, up to approx. 8 feet in height or a more logical isolation point if appropriate.

#### **Set 07                    Plenums 102 & 104 Removal**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified components, any necessary containments for the equipment, and the actual physical removal of the specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include residual liquids drainings, wipe downs and surveys (radiological and other) of the equipment, the use of decontamination processes (as necessary), and packaging of the components or equipment and waste removal.

Set 7 consist of the removal of Module J and K's ventilation inert equipment. Major components contained within this set are: plenums PL-102 and 104, heat chamber HC-102, and fans F-102A/B, F-112A/B, and F-114A/B. Set 7 also contains the electrical conduit/wiring, instrumentation, piping, and ducting associated with the components within Set 7, up to approx. 8 feet in height or a more logical isolation point if appropriate.

#### **Set 08                    Dry Air System 1 (Modules A, B, C, & D) Removal**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified components, any necessary containments for the equipment, and the actual physical removal of the specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include residual liquids drainings, wipe downs and surveys (radiological and other) of the equipment, the use of decontamination processes (as necessary), and packaging of the components or equipment and waste removal.

Set 8 consist of the removal of General Dry Air System 1 (GDA). GDA supplies air to Module A, B, C, & D through a common header. Major components removed within this set include: supply components FU-101, PH-1, FU-1, PC-101, PC-1, dehumidifiers DU-1 & 2, FU-11, RH-101, SRH-101, fan F-1, CU-1, FU-34, and exhaust components FU-21, and fans F-20 & 21. Set 8 also contains the electrical conduit/wiring, instrumentation, piping, and ducting associated with the components within Set 8, up to approx. 8 feet in height or a more logical isolation point if appropriate.

#### **Set 09                    Dry Air System 2 (Modules A, B, C, & D) Removal**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified components, any necessary containments for the equipment, and the actual physical removal of the specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include residual liquids drainings, wipe downs and surveys (radiological and other) of the equipment, the use of decontamination processes (as necessary), and packaging of the components or equipment and waste removal.

Set 9 consist of the removal of General Dry Air System 2 (GDA). GDA supplies air to Module A, B, C, & D through a common header. Major components removed within this set include: supply components FU-102, PH-2, FU-2, PC-102, PC-2, dehumidifiers DU-3 & 4, FU-12, RH-102, SRH-102, fan F-2, CU-2, FU-35, and exhaust components FU-22, and fans F-22 & 23. Set 9 also contains the electrical conduit/wiring, instrumentation, piping, and ducting associated with the components within Set 9, up to approx. 8 feet in height or a more logical isolation point if appropriate.

#### **Set 10                    Dry Air System 3 (Modules A, B, C, & D) Removal**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified components, any necessary containments for the equipment, and the actual physical removal of the specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include residual liquids drainings, wipe downs and surveys (radiological and other) of the equipment, the use of decontamination processes (as necessary), and packaging of the components or equipment and waste removal.

Set 10 consist of the removal of General Dry Air System 3 (GDA). GDA supplies air to Module A, B, C, & D through a common header. Major components removed within this set include: supply components FU-103, PH-3, FU-3, PC-103, PC-3, dehumidifiers DU-5 & 6, FU-13, RH-103, SRH-103, fan F-3, CU-3, FU-36, and exhaust components FU-23, and fans F-24 & 25. Set 10 also contains the electrical conduit/wiring, instrumentation, piping, and ducting associated with the components within Set 10, up to approx. 8 feet in height or a more logical isolation point if appropriate.

#### **Set 11                    Dry Air System 4 (Modules A, B, C, & D) Removal**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified components, any necessary containments for the equipment, and the actual physical removal of the specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include residual liquids drainings, wipe downs and surveys (radiological and other) of the equipment, the use of decontamination processes (as necessary), and packaging of the components or equipment and waste removal.

Set 11 consist of the removal of General Dry Air System 4 (GDA). GDA supplies air to Module A, B, C, & D through a common header. Major components removed within this set include: supply components FU-104, PH-4, FU-4, PC-104, PC-4, dehumidifiers DU-7 & 8, FU-14, RH-104, SRH-104, fan F-4, CU-4, FU-37, and exhaust components FU-24, and fans F-26 & 27. Set 11 also contains the electrical conduit/wiring, instrumentation, piping, and ducting associated with the components within Set 11, up to approx. 8 feet in height or a more logical isolation point if appropriate.

#### **Set 12                    Dry Air System 5 (Modules E, F, G, & H) Removal**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified components, any necessary containments for the equipment, and the actual physical removal of the specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include residual liquids drainings, wipe downs and surveys (radiological and other) of the equipment, the use of decontamination processes (as necessary), and packaging of the components or equipment and waste removal.

Set 12 consist of the removal of General Dry Air System 5 (GDA). GDA supplies air to Module E, F, G, & H through a common header. Major components removed within this set include: supply components FU-105, PH-5, FU-5, PC-105, PC-5, dehumidifiers DU-9 & 10, FU-15, RH-105, SRH-105, fan F-5, CU-5, FU-38, and exhaust components FU-25, and fans F-28 & 29. Set 12 also contains the electrical conduit/wiring, instrumentation, piping, and ducting associated with the components within Set 12, up to approx. 8 feet in height or a more logical isolation point if appropriate.

#### **Set 13                    Dry Air System 6 (Modules E, F, G, & H) Removal**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified components, any necessary containments for the equipment, and the actual physical removal of the specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include residual liquids drainings, wipe downs and surveys

(radiological and other) of the equipment, the use of decontamination processes (as necessary), and packaging of the components or equipment and waste removal.

Set 13 consist of the removal of General Dry Air System 6 (GDA). GDA supplies air to Module E, F, G, & H through a common header. Major components removed within this set include: supply components FU-106, PH-6, FU-6, PC-106, PC-6, dehumidifiers DU-11 & 12, FU-16, RH-106, SRH-106, fan F-6, CU-6, FU-39, and exhaust components FU-26, and fans F-30 & 31. Set 13 also contains the electrical conduit/wiring, instrumentation, piping, and ducting associated with the components within Set 13, up to approx. 8 feet in height or a more logical isolation point if appropriate.

#### **Set 14                    Dry Air System 7 (Modules E, F, G, & H) Removal**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified components, any necessary containments for the equipment, and the actual physical removal of the specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include residual liquids drainings, wipe downs and surveys (radiological and other) of the equipment, the use of decontamination processes (as necessary), and packaging of the components or equipment and waste removal.

Set 14 consist of the removal of General Dry Air System 7 (GDA). GDA supplies air to Module E, F, G, & H through a common header. Major components removed within this set include: supply components FU-107, PH-7, FU-7, PC-107, PC-7, dehumidifiers DU-13 & 14, FU-17, RH-107, SRH-107, fan F-7, CU-7, FU-40, and exhaust components FU-27, and fans F-32 & 33. Set 14 also contains the electrical conduit/wiring, instrumentation, piping, and ducting associated with the components within Set 14, up to approx. 8 feet in height or a more logical isolation point if appropriate.

#### **Set 15                    Dry Air Systems 11 & 12 (Modules J & K) Removal**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified components, any necessary containments for the equipment, and the actual physical removal of the specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include residual liquids drainings, wipe downs and surveys (radiological and other) of the equipment, the use of decontamination processes (as necessary), and packaging of the components or equipment and waste removal.

Set 15 consist of the removal of General Dry Air System 11 (GDA). GDA supplies air to Module J & K through a common header. Module J's major components removed within this set include: supply components FU-51, FU-52, PH-11, FU-41, PC-111, PC-11, dehumidifiers DU-21 & 22, FU-43, RH-111, RH-11, fan F-11, CU-11, FU-48, and exhaust components FU-45, and fans F-61 & 62. Module K's major components removed within this set include: supply components FU-53, FU-54, PH-12, FU-42, PC-112, PC-12, dehumidifiers DU-23 & 24, FU-44, RH-112, RH-12, fan F-12, CU-12, and exhaust components FU-46, and fans F-63 & 64. Set 15 also contains the electrical conduit/wiring, instrumentation, piping, and ducting associated with the components within Set 15, up to approx. 8 feet in height or a more logical isolation point if appropriate.

#### **Set 16                    Equipment Removals Rm 210**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified components, any necessary containments for the equipment, and the actual physical removal of



the specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include residual liquids drainings, wipe downs and surveys (radiological and other) of the equipment, the use of decontamination processes (as necessary), and packaging of the components or equipment and waste removal.

Set 16 consist of the removal of components in room 200 that are no longer required to support operations on the first floor. Major components in this category are; Equipment used to support Module C hydraulic needs (7C-25A/B, 7C-45A/B, 7C-65A/B, 7C-30, and 7C-60). Other components include storage tanks: V-34, V-35, V-33, V-32, and Process Cooling Water tank V-49, heat exchangers E-1A, B, C, and re-circulation pumps P-1A/B. Other heat exchangers and pumps are: E-8A/B, P-23, and P-20A/B. Also included in this set are MG sets 7A-45-55 and 7A-25-35 and Module B's hydroform press storage tank. Dehumidification components in this set are: R-1, 2, 3, 4, PU-1 through 8, P-101, 102, 103, and P-104. Set 16's scope includes the removal of electrical conduit/wiring, instrumentation, piping, and ducting associated with the components within Set 16, up to approx. 8 feet in height or a more logical isolation point if appropriate. Building wide safety systems, such as fire suppression, life safety/disaster warning, etc., will be taken out, as scoped in set U7.

#### **Set 17                      Equipment Removals Rm 200**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified components, any necessary containments for the equipment, and the actual physical removal of the specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include residual liquids drainings, wipe downs and surveys (radiological and other) of the equipment, the use of decontamination processes (as necessary), and packaging of the components or equipment and waste removal.

Set 17's scope primarily consist of the removal of ventilation conditioning equipment. Major components within this set include: RC-1A/B, heat exchangers 450-500 through 504, E-5A/B, E-6A/B, V-65, pumps P-9A/B, and dehumidification components R-8A/B, R-9A/B, and PU-15 through 20. Set 17's scope includes the removal of electrical conduit/wiring, instrumentation, piping, and ducting associated with the components within Set 17, up to approx. 8 feet in height or a more logical isolation point if appropriate. Building wide safety systems, such as fire suppression, life safety/disaster warning, etc., will be taken out, as scoped in set U7.

#### **Set 18                      Utilities Control Room and 2<sup>nd</sup> Floor Electrical < 8ft**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified components, any necessary containments for the equipment, and the actual physical removal of the specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include residual liquids drainings, wipe downs and surveys (radiological and other) of the equipment, the use of decontamination processes (as necessary), and packaging of the components or equipment and waste removal.

Set 18 consist of the removal of control room panels, MCCs, and all the misc. electrical conduit/panels throughout the 2<sup>nd</sup> floor of the building. Building wide safety systems, such as fire suppression, life safety/disaster warning, etc., will be taken out, as scoped in set U7.

## **Set 19                      Equipment Removals Rm 240 (Annex)**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified components, any necessary containments for the equipment, and the actual physical removal of the specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include residual liquids drainings, wipe downs and surveys (radiological and other) of the equipment, the use of decontamination processes (as necessary), and packaging of the components or equipment and waste removal.

Set 19 consist of the removal of Room 240 misc. equipment. Major items within this set include MG-7J 45-55, MG-7J 25-35, MG-7K 75-85, MG-7K 55-65, R-11, R-12, PU-21 through 24, and P-111 & P-112. Set 19's scope includes the removal of electrical conduit/wiring, instrumentation, piping, and ducting associated with the components within Set 19, up to approx. 8 feet in height or a more logical isolation point if appropriate. Building wide safety systems, such as fire suppression, life safety/disaster warning, etc., will be taken out, as scoped in set U7.

## **Set 20                      Entire 2<sup>nd</sup> Floor Strip out > 8ft**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified components, any necessary containments for the equipment, and the actual physical removal of the specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include residual liquids drainings, erection of scaffolding, wipe downs and surveys (radiological and other) of the equipment, the use of decontamination processes (as necessary), and packaging of the components or equipment and waste removal.

The scope of this set includes the isolation and removal of mechanical items (such as conduit, wiring, piping, tubing, hangers, etc.) above the approximate 8-ft line on the entire 2<sup>nd</sup> floor. Building wide safety systems, such as fire suppression, life safety/disaster warning, etc., will be taken out, as scoped in set U7.

### **Set R1 Contaminated Area Rooms & Corridors < 8ft**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified items, any necessary containments for the equipment, and the actual physical removal of the specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include wipe downs and surveys (radiological and other) of the equipment, the use of decontamination processes (as necessary), packaging of the components or equipment, and waste removal.

The scope of this set includes the isolation and removal of miscellaneous items. Any miscellaneous items or equipment, located within the corridors or the CA rooms, and less than approximately 8ft. from the floor, are planned to be removed. Building wide safety systems, such as fire suppression, life safety/disaster warning, etc., will be taken out, as scoped in set U7.

### **Set R2 Contaminated Area Rooms & Corridors Strip out > 8ft**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified items, any necessary containments for the equipment, and the actual physical removal of the specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include wipe downs and surveys (radiological and other) of the equipment, erection of scaffolding, the use of decontamination processes (as necessary), packaging of the components or equipment, and waste removal.

The scope of this set includes the isolation and removal of both mechanical and electrical items (such as conduit, wiring, piping, tubing, hangers, etc.) above the approximate 8-ft line in the CA rooms and corridors. Building wide safety systems, such as fire suppression, life safety/disaster warning, etc., will be taken out, as scoped in set U7.

### **Set R3 Contaminated Area Rooms & Corridors Chainveyor Removal**

This Set encompasses activities to support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal of chainveyor sections, items, and equipment, leaded window removal, electrical and/or mechanical isolation of the identified chainveyor sections, items, and equipment, any necessary containments for the chainveyor sections and equipment, and the actual physical removal of specified chainveyor sections and equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the chainveyor sections and equipment. Tasks associated with these activities, as appropriate, include glove changes, protective lead shielding removal, and wipe downs and surveys (radiological and other) of the chainveyor sections. Also included are tasks such as the use of decontamination processes, erection of scaffolding, encapsulation by use of fixatives, packaging of the chainveyor sections, equipment, and waste, and transporting of chainveyor sections to a size reduction facility (if required).

The scope of this set includes the isolation and removal of chainveyor transfer lines S8 and S9 above or below the approximate 8ft line within the boundaries of the CA rooms or corridors.

Equipment and chainveyor sections within this set are expected to be isolated and separated at logical and convenient points with adjacent modules or rooms.

It is anticipated that chainveyor transfer lines and chainveyor centerlines can be successfully decontaminated to the Surface Contaminated Object (SCO) criteria. This will necessitate the removal of leaded glass windows.

## **Set N1 Cold Offices Strip out**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified items, any necessary containments for the items/equipment, and the actual physical removal of the specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include wipe downs and surveys (radiological and other) of the equipment, erection of scaffolding, packaging of the components or equipment, and waste removal.

The scope of this set includes the isolation and removal of both mechanical and electrical items (such as conduit, wiring, piping, tubing, hangers, etc.) in the cold offices and corridors. Inclusive are any miscellaneous items identified for removal. Building wide safety systems, such as fire suppression, life safety/disaster warning, etc., will be taken out, as scoped in set U7.

## **Set T1 External Carbon Tetrachloride Tank and Piping Removal**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified items, any necessary containments for the items/equipment, and the actual physical removal of the specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include surveys (radiological and other), wipe downs of the equipment and containment area, erection of scaffolding, packaging of the components or equipment, and waste removal.

The scope of this set is the removal of the  $\text{CCl}_4$  tank and it's associated piping and electrical to a logical isolation point near the exterior wall of the building. Any remaining concrete slabs, berms, or foundations will be removed as scoped in set U8.

## **Set T2 Liquid Nitrogen Tank and Piping Removal**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified items, any necessary containments for the items/equipment, and the actual physical removal of the specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include surveys (radiological and other), wipe downs of the equipment (if necessary), erection of scaffolding, packaging of the components or equipment, and waste removal.

The scope of this set is the removal of the liquid nitrogen tank and its associated piping to a logical isolation point near the exterior wall of the building. Any remaining slabs or foundations will be removed as scoped in set U8.

## **Set T3 Removal of External Tanks T324, T325, TK11, TK16**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified items, any necessary containments for the equipment and tanks, and the actual physical removal of the specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and

personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include surveys (radiological and other), wipe downs of the equipment and containment area, erection of scaffolding, packaging of the components or equipment, and waste removal.

The scope of this set is the removal of tanks T324, T325, TK11, and TK16, their associated piping, pumps, and electrical at a logical isolation point. Any remaining slabs or foundations will be removed as scoped in set U8.

#### **Set T4      Removal of T290 Underground Storage Tank**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified items, any necessary containments for the equipment and tanks, and the actual physical removal of the specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include surveys (radiological and other), wipe downs of the equipment and containment area, excavation and back filling, packaging of the components and equipment, and waste removal.

The scope of this set is the removal of tank T290 and its associated piping, pumps, and electrical at logical isolation points. Also included is back filling of excavation.

#### **Set X1      Type 1 Buildings T707C, T707D, T707E, & T707S Demo & Removal**

Activities in this set support the planning and engineering, procurement of supplies and equipment, electrical and/or mechanical isolation of the identified structures, and the actual physical removal of the specified trailers. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, isolate, and remove the structures. Tasks associated with these activities, as appropriate, include surveys (radiological and other), transporting the structures (as necessary), and removal of plant systems to logical isolation points.

The scope of this set is the removal of trailers T707S, T707C, T707D, & T707E and their associated piping and electrical systems at logical isolation points. Any remaining slabs or foundations will be removed as scoped in set U8.

#### **Set X2      Type 1 Buildings 711 & 711A Isolation, Demo, & Removal**

Activities in this set support the planning and engineering, procurement of supplies and equipment, electrical and/or mechanical isolation of the identified structures, and the actual physical demolition and removal of the specified buildings. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically isolate, demolish, and remove the structural debris. Tasks associated with these activities, as appropriate, include surveys (radiological and other), and removal of plant systems to logical isolation points.

The scope of this set is the removal of buildings 711 & 711A and their associated electrical and mechanical systems. Any remaining slabs or foundations will be removed as scoped in set U8.

#### **Set U1      Isolation, Final Status Survey, & Demolition of Building 709**

Activities in this set support the planning and engineering, final status surveys, electrical and/or mechanical isolation of the identified structure, and the actual physical demolition and removal of the specified buildings. Inclusive in these activities are the resources needed to produce the required work instruction

packages (IWCPs), necessary waste containers for the disposal of the waste, and personnel resources to physically survey, isolate, demolish, and remove the structural debris. Tasks associated with these activities, as appropriate, include surveys (radiological and other) and isolation of plant systems to logical isolation points.

The scope of this set is the removal of building 709 and isolation of its associated electrical and mechanical systems. Any remaining slabs or foundations will be removed as scoped in set U8.

#### **Set U2                    Isolation, Final Status Survey, and Demolition of Building 718**

Activities in this set support the planning and engineering, final status surveys, electrical and/or mechanical isolation of the identified structure, and the actual physical demolition and removal of the specified buildings. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the waste, and personnel resources to physically survey, isolate, demolish, and remove the structural debris. Tasks associated with these activities, as appropriate, include surveys (radiological and other) and isolation of plant systems to logical isolation points. Internal stripout activities can be found in set Y1.

The scope of this set is the removal of building 718 and any remaining isolation of its associated electrical and mechanical systems not accomplished by set Y1. Any remaining slabs or foundations will be removed as scoped in set U8.

#### **Set U3                    Isolations, Final Status Surveys, and Demolition of Building 708**

Activities in this set support the planning and engineering, final status surveys, electrical and/or mechanical isolation of the identified structure, and the actual physical demolition and removal of the specified buildings. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the waste, and personnel resources to physically survey, isolate, demolish, and remove the structural debris. Tasks associated with these activities, as appropriate, include surveys (radiological and other) and isolation of plant systems to logical isolation points. Internal stripout activities can be found in set Y2.

The scope of this set is the removal of building 708 and any remaining isolation of its associated electrical and mechanical systems not accomplished by set Y2. Any remaining slabs or foundations will be removed as scoped in set U8.

#### **Set U4                    Isolations, Final Status Surveys, and Demolition of Building 778**

Activities in this set support the planning and engineering, final status surveys, electrical and/or mechanical isolation of the identified structure, and the actual physical demolition and removal of the specified buildings. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the waste, and personnel resources to physically survey, isolate, demolish, and remove the structural debris. Tasks associated with these activities, as appropriate, include surveys (radiological and other) and isolation of plant systems to logical isolation points. Internal stripout activities can be found in sets Y4, Y5, Y6, and Y7.

The scope of this set is the removal of building 778 and any remaining isolation of its associated electrical and mechanical systems not accomplished by sets Y4, Y5, Y6, or Y7. Any remaining slabs or foundations will be removed as scoped in set U8.

#### **Set U5                    Isolations, Final Status Surveys, and Demolition of Buildings 731 & 732**

Activities in this set support the planning and engineering, final status surveys, electrical and/or mechanical isolation of the identified structure, and the actual physical demolition and removal of the specified buildings. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the waste, and personnel resources to

physically survey, isolate, demolish, and remove the structural debris. Tasks associated with these activities, as appropriate, include surveys (radiological and other), decontamination (as necessary), and isolation of plant systems to logical isolation points. Internal stripout activities can be found in set Y3.

The scope of this set is the removal of buildings 731 and 732 and any remaining isolation of its associated electrical and mechanical systems not accomplished by set Y3. Any remaining slabs or foundations will be removed as scoped in set U8.

#### **Set U6                      Final Characterization & Surveys & Demolition of Building 707**

Activities in this set support the planning and engineering, final status surveys, electrical and/or mechanical isolation of the identified structure, and the actual physical demolition and removal of the specified buildings. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the waste, and personnel resources to physically survey, isolate, demolish, and remove the structural debris. Tasks associated with these activities, as appropriate include, any necessary containments for internal wall removal, surveys (radiological and other), decontamination (as necessary), and isolation of plant systems to logical isolation points. Internal stripout activities can be found in various sets.

The scope of this set includes isolation of building 707 associated electrical and mechanical systems from plant-wide systems, the demolition and removal of interior walls, the demolition of building 707 and the annex area (J & K Modules), and removal of debris.

#### **Set U7                      707 Cluster Safety Systems Removal**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified items, any necessary containments for the items/equipment, and the actual physical removal of the specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically isolate, dismantle, and disposition the equipment. Tasks associated with these activities, as appropriate, include wipe downs and surveys (radiological and other) of the equipment, erection of scaffolding, packaging of the components or equipment, and waste removal.

The scope of this set includes isolation and removal of the Criticality Detection System, building-wide Fire Detection System, Fire Suppression System, and the Life Safety/ Disaster Warning System.

#### **Set U8                      B707 and Type II Buildings Foundation and Slab Removal**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified items, any necessary containments for the slabs and foundations, and the actual physical removal of the specified slabs, containments, and foundations. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary equipment for removal and transportation, and personnel resources to physically perform the work. Tasks associated with these activities, as appropriate, include surveys (radiological and other), excavation, and back filling.

The scope encompassed in this set includes all slabs, containments, and foundations for Type II and Type III buildings in the 707 cluster. Included is the removal and dispositioning of embedded building piping runs located in the foundation of building 707.

#### **Set UP                      B707 Pre-Demolition Activities**

Activities in this set support the generation of documents necessary for the demolition of the B707 cluster of buildings. Included in these activities are the resources to produce and revise the documents, perform initial building surveys for demolition, and resources to perform physical decontamination, as required.



The scope of the activities within this set include preparation of the 707 Cluster Demolition Survey Report based on data from the final building surveys; incorporation of review comments; and finalization of the report for submittal to K-H. Additionally, the performance of initial radiological surveys for Building 707 and decontamination of found areas. Other activities in this set are; perform the pre-planning and development of the procurement package for the demolition of the 707 facility and other remaining structures within the scope of the 707 Closure Project Cluster, and address questions related to the demolition plan contract RFP.

A significant portion of this set scope is to develop the B707 demolition plan. This plan is a stand-alone document that will require concurrence from RFFO and the CDPHE (including stakeholder comment response/inclusion into the document). This activity involves responding to DOE review comments and incorporating them final comments into the B707 Demolition Plan. Activities provide for Regulator review and comment on the B707 Demolition Plan, incorporation of final Regulator comments into the Demolition Plan, and final develop the RFP to perform physical demolition of the B707 structure and remaining outbuildings associated with the B707 cluster. There is also an activity, which covers the selected contractor's mobilization and preparation of B707 cluster for demolition.

#### **Set Y1                      Type 2 Building 718 Mechanical, Electrical, and Misc. Stripout**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified items, any necessary containments for the items/equipment, and the actual physical removal of specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include wipe downs and surveys (radiological and other) of the equipment, erection of scaffolding, packaging of the components or equipment, and waste removal.

The scope of this set includes the isolation and removal of both mechanical and electrical items (such as conduit, wiring, piping, tubing, hangers, etc.) in building 718. Inclusive, are any miscellaneous items identified for removal. Any building wide safety systems, such as fire suppression, life safety/disaster warning, etc., will be taken out within this set.

#### **Set Y2                      Type 2 Building 708 Mechanical, Electrical, and Misc. Stripout**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified items, any necessary containments for the items/equipment, and the actual physical removal of specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include wipe downs and surveys (radiological and other) of the equipment, erection of scaffolding, packaging of the components or equipment, and waste removal.

The scope of this set includes the isolation and removal of both mechanical and electrical items (such as conduit, wiring, piping, tubing, hangers, etc.) in building 708. Inclusive, are any miscellaneous items identified for removal. Any building wide safety systems, such as fire suppression, life safety/disaster warning, etc., will be taken out within this set.

#### **Set Y3                      Type 2 Buildings 731 & 732 Mechanical, Electrical, and Misc. Stripout**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified items, any necessary containments for the items/equipment, and the actual physical removal of specified equipment. Inclusive in these activities are the resources needed to produce the required work

instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include wipe downs and surveys (radiological and other) of the equipment, erection of scaffolding, packaging of the components or equipment, and waste removal.

The scope of this set includes the isolation and removal of both mechanical and electrical items (such as conduit, wiring, piping, tubing, hangers, etc.) in buildings 731 & 732. Inclusive, are any miscellaneous items identified for removal. Any building wide safety systems, such as fire suppression, life safety/disaster warning, etc., will be taken out as part of this set.

**Set Y4                    Bldg. 778 Laundry Area Mechanical, Electrical, and Misc. Stripout**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified items, any necessary containments for the items/equipment, and the actual physical removal of specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include wipe downs and surveys (radiological and other) of the equipment, erection of scaffolding, packaging of the components or equipment, and waste removal.

The scope of this set includes the isolation and removal of both mechanical and electrical items (such as conduit, wiring, piping, tubing, hangers, etc.) in the building 778 laundry area. Inclusive, are any miscellaneous items identified for removal. Any building wide safety systems for this area, such as fire suppression, life safety/disaster warning, etc., will be taken out as part of the scope of this set.

**Set Y5                    Bldg. 778 Maintenance Shop Area Mechanical, Electrical, and Misc. Stripout**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified items, any necessary containments for the items/equipment, and the actual physical removal of specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include wipe downs and surveys (radiological and other) of the equipment, erection of scaffolding, packaging of the components or equipment, and waste removal.

The scope of this set includes the isolation and removal of both mechanical and electrical items (such as conduit, wiring, piping, tubing, hangers, etc.) in the building 778 Maintenance Shop area. Inclusive, are any miscellaneous items identified for removal. Any building wide safety systems for this area, such as fire suppression, life safety/disaster warning, etc., will be taken out as part of the scope of this set.

**Set Y6                    Bldg. 778 (Remainder) Mechanical, Electrical, and Misc. Stripout**

Activities in this set support the planning and engineering, procurement of supplies and equipment, preparatory tasks associated with the removal equipment, electrical and/or mechanical isolation of the identified items, any necessary containments for the items/equipment, and the actual physical removal of specified equipment. Inclusive in these activities are the resources needed to produce the required work instruction packages (IWCPs), necessary waste containers for the disposal of the items removed, and personnel resources to physically separate, dismantle, and/or disposition the equipment. Tasks associated with these activities, as appropriate, include wipe downs and surveys (radiological and other) of the equipment, erection of scaffolding, packaging of the components or equipment, and waste removal.

The scope of this set includes the isolation and removal of both mechanical and electrical items (such as conduit, wiring, piping, tubing, hangers, etc.) not covered in sets Y4 or Y5. A large portion of the scope of this set will be the stripout of both the men and women's locker and shower rooms. Inclusive, are any

miscellaneous items identified for removal. Any building wide safety systems residing within this remaining area of B778, such as fire suppression, life safety/disaster warning, etc., will be taken out as part of this set.